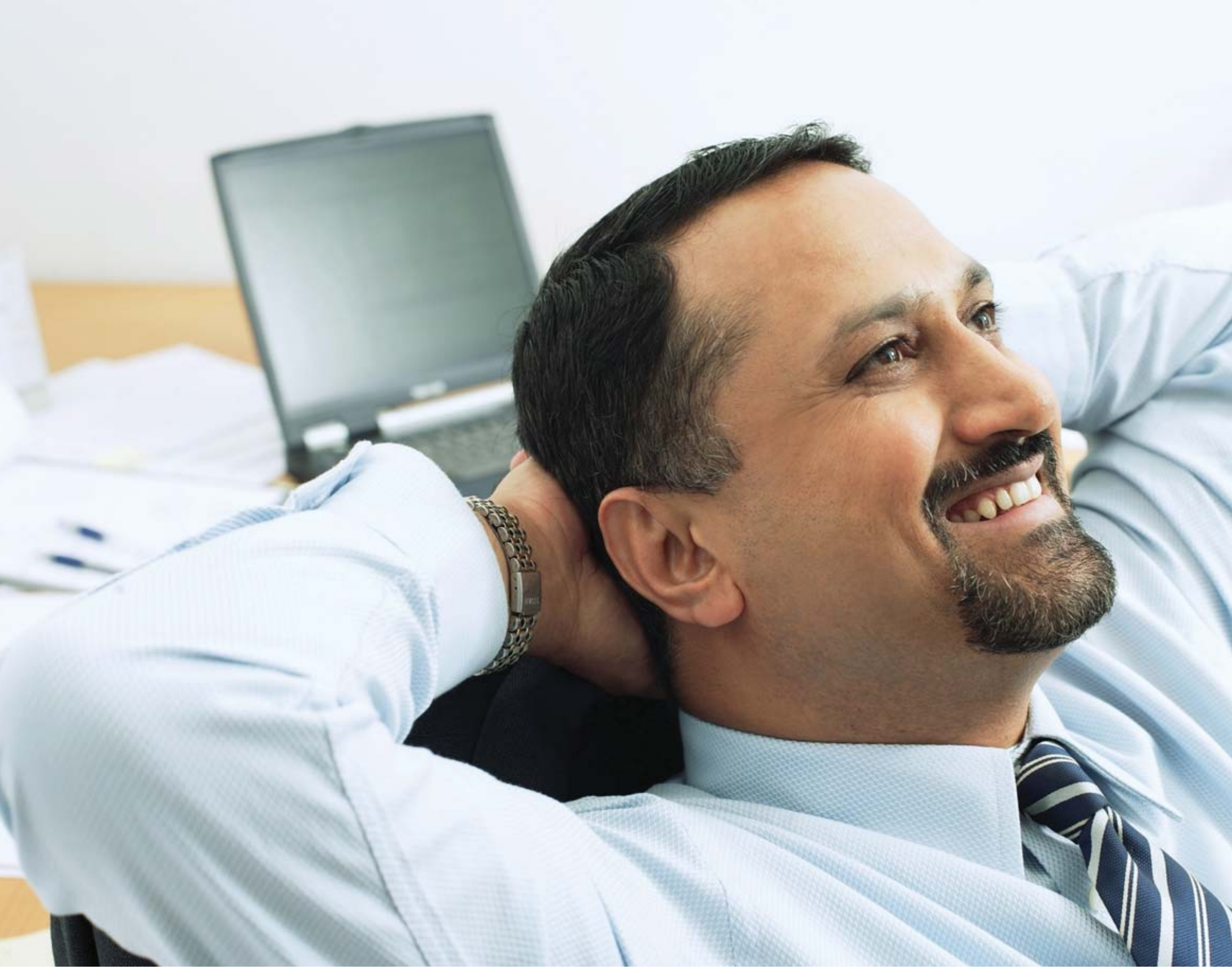


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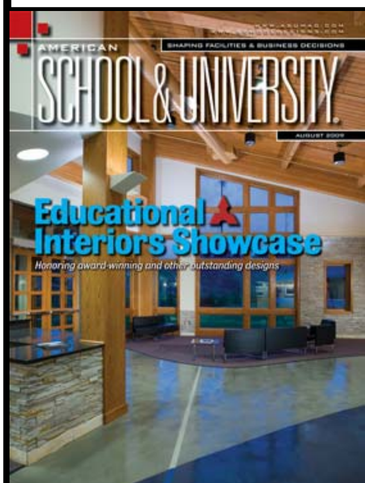
VOLUME 81 • AUGUST 2009 • NUMBER 13

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Lewis & Clark Interpretive Center, Betty Strong Encounter Center, Sioux City, Iowa (p. 80); Architect: Cannon Moss Brygger & Associates; Photographer: Paul Brokering

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Turning the Page



I'll admit it: When it comes to books, I'm a little old-fashioned. For me, curling up with a good book actually involves turning pages. And I still like checking out books at the library.

But the next generation of students may wonder if Dewey Decimal is some sort of math superhero. Turning the page of a book may be accompanied by a sigh and deep breath. Some kids may consider it exercise.

Vail School District (Ariz.) has been proactive in taking technology head on when it comes to digital learning. The "Beyond Textbooks" initiative encourages teachers to create lessons that incorporate PowerPoint presentations, along with videos and research materials from the Internet.

The initiative is powered by the Vail Interactive Curriculum Calendar Initiative (VICCI), an instructional tool designed to promote creativity that lets teachers broaden their instruction styles. An important component is enabling teachers to house and share information.

At Empire High School, Vail, Ariz., students use computers to get lessons, do homework and listen to lectures via podcasts. At neighboring Cienega High School, students who have laptops can register for "digital sections" of some English, science and history classes.

Some arguments for going digital:

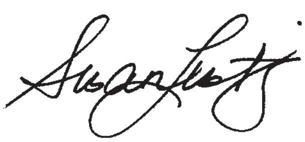
•Kids think differently these days and can't be locked in with just one textbook of the printed page for a class. They need more resources, whether it's from Web courseware, games or videos.

•It's cheaper. This summer, California Gov. Arnold Schwarzenegger announced an initiative that would replace some high school math and science texts with free digital versions.

•It's healthier. No more carrying around heavy backpacks.

•Instant updates. Some textbooks are outdated as soon as they are printed.

Of course, digital technology also requires a way to view it, whether it is a computer, a digital reader or cell phone with those capabilities, and many students and districts don't see this as a reality for many years to come. So for now, I won't be turning in my library card. ■



slustig@asumag.com

WEB 101

An appropriate strip search?

Schoolhouse Beat—The Blog recently discussed the story of a strip search of 13-year-old Savana Redding at Safford (Ariz.) Middle School in 2003. In an 8-to-1 decision, the Supreme Court ruled that the search, which was for prescription-strength ibuprofen, violated the Constitution. Some of your comments:

•It is time we get back to the days of common sense. If a report of an illegal drug was made, then the parent(s) should be summoned to school immediately; the student should be kept in direct view of administrators. Once the parent is present, then—only then—law enforcement and the parent decide what occurs. If you cannot interrogate a minor without the parent or lawyer present, then how can we justify this act?

•School leaders showed poor judgment. Training of education leaders must include case studies in child development and personnel management.

•Unfortunately, searching a student has become necessary, but even this can be done with tact and not degrade anyone. It is done in airports and terminals.



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The 2009 Educational Interiors Showcase jury: Whitbeck, Horner and Obregon.

Kirk Horner, AIA

Vice President and Partner, Hollis + Miller Architects, Overland Park, Kan.

Kirk joined Hollis + Miller in 1989 and has been with the firm for more than 20 years. He became a partner in 1992. He is the public sector K-12 market leader and is co-author of *Technology & Schools Design–Creating Spaces for Learning–NSBA*. He also has served as a key participant in the development of a national model for districtwide master planning for NSBA. Kirk has been a keynote speaker for a variety of organizations and associated conferences, including NSBA, MSBA/MASA, Midwest Energy Manager's Organization and AIA-Kansas City. Kirk has a bachelor of architecture from Kansas State University in Manhattan, Kan., and attended graduate school at the University of Texas in Dallas.

Marco Fernandez-Obregon

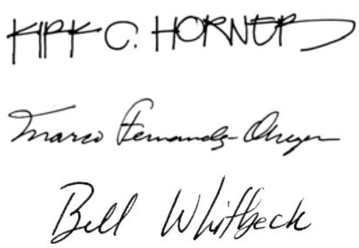
Manager of Plant, Engineering & Operations
Hamilton Township Board of Education, Hamilton, N.J.

Marco, a mechanical engineer, has more than 22 years experience in the planning, design and building of public facility projects, including capital projects for public schools, higher education and the federal sector. As director of facilities at William Paterson University, Wayne, N.J., he initiated several energy-conservation projects and initiatives, lighting retrofits and boiler-efficiency upgrades. In his current position, he manages the district's facilities department. Hamilton is the sixth-largest school district in New Jersey, with 17 elementary schools, three middle schools, three high schools, one special-education school and three other facilities. In 2008, Marco was selected as the National School Plant Management Association's "Manager of the Year."

Bill Whitbeck, LEED AP

Construction Project Manager, Dept. of Const., Maint. and Interior Design, Div. of Housing and Food Services, Michigan State University, East Lansing

In his role at Michigan State University, Bill oversees all construction projects (about $120 million) for the division. He also provides facilities support, management resources and assesses major maintenance requirements for all residence halls on campus, as well as the MSU Union, the Kellogg Center, The International Center, The Breslin Student Center and other facilities that together encompass more than 6 million square feet. He is responsible for the ongoing management and oversight of the facilities portion of the division's strategic plan. Bill currently is redesigning the division's process for funding and planning maintenance and construction projects. He was an adjunct instructor in the construction management program at MSU for eight years. He earned a bachelor's degree in hotel and restaurant management, and a master's degree in construction management at MSU.




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ENGAGING INTERIORS

The interiors of a school or university building should keep students, staff and visitors engaged and excited. Each May, *AS&U* assembles a jury of education and architectural professionals to decide the best of the best in education interior design. This year's jury pored over 90 entries in the competition. It considered the following criteria in making 19 citation selections:

- Ability to integrate current and future **technology**.
- Innovative use of **materials**: practical, timeless, sustainable, cost.
- Life-cycle **cost** vs. first cost.
- Timeless (not a fad), with the **flexibility** to update to current standards.
- **Safety and security** (integrated into the design; ability to change/improve; passive/active).
- Clarity of design **concept**: does it work?
- Does it provide for an enhanced educational **mission**? Is this an environment that people want to engage in learning/teaching?

"This is a place that just needs to be experienced." **p. 16-17**

"The artful selection of warm, quality materials will ensure this building will age gracefully." **p. 18-19**

"The colors, furnishings and casework contribute to a fantastic learning environment!" **p. 36**

"Innovative massing and careful selections of colors combine to create an inspiring and wonderful environment to learn in." **p. 41**


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MAIN WINNERS

CROW ISLAND SCHOOL CITATION

Fanning Howey
Phelps Architecture, Construction and Engineering High School
Washington, D.C. ....p. 16-17

"Excellent design by utilizing space to create a timeless and artistic connection with the past. Tasteful use of different building materials along with natural lighting work very well in harmony together. This is a place that just needs to be experienced."
—2009 jury



COLLEGIATE CITATION

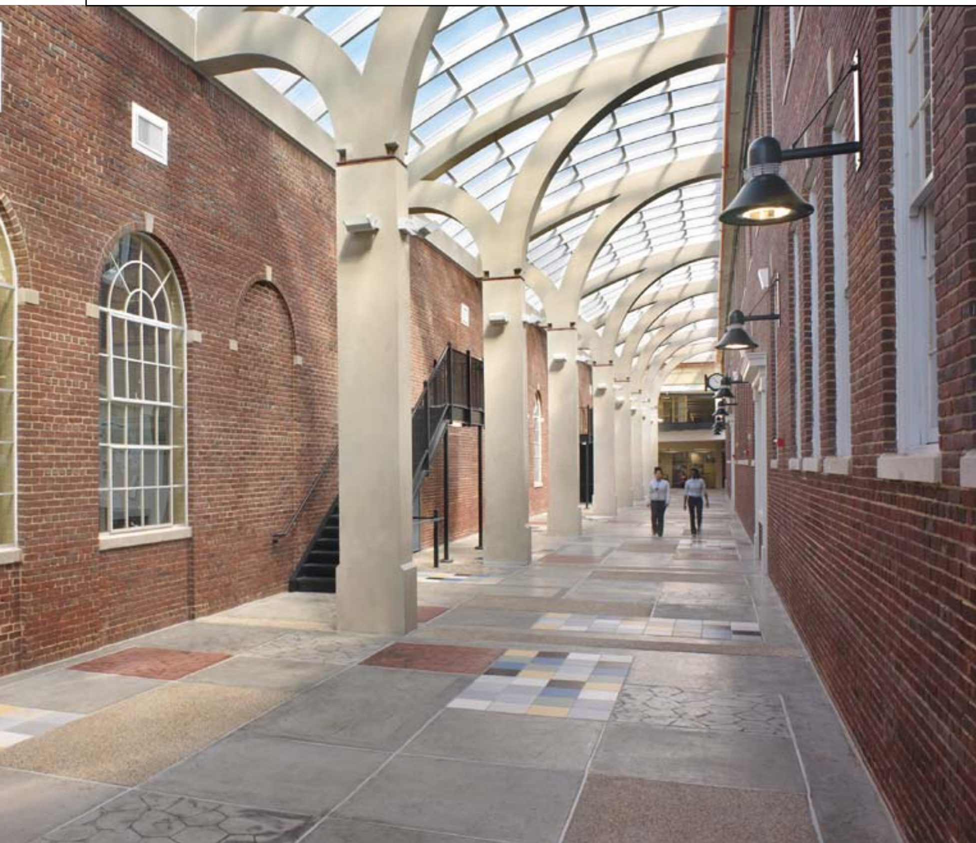


Design Organization, Inc.
Valparaiso University, Harre Union
Valparaiso, Indiana ....p. 18-19

"The artful selection of warm, quality materials will ensure this building will age gracefully."
—2009 jury

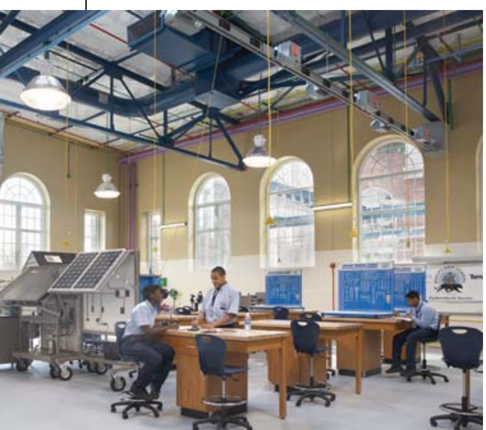


Phelps Architecture, Construction and Engineering High School
Washington, D.C.











Fanning Howey

Associated firm: Bryant Mitchell Architects

Client:
District of Columbia Public Schools; Michelle Rhee, Chancellor

Area of project entry category:
6,200 sq. ft.

Cost of project entry category:
$1,740,000

Cost/square foot of project entry category:
$280.65

Total area:
17,736 sq. ft. (new); 123,256 sq. ft. (renovation)

Total cost:
$41,083,300

Total cost/square foot:
$293.45

Completion:
August 2008

Photographers:
Kea Taylor/Imagine Photography; Jim Maguire/Maguire Photographics; Kristy Lair/Fanning Howey

The reopening of Phelps Architecture, Construction and Engineering High School transformed an abandoned building into a cutting-edge instructional environment for the design and construction trades. A soaring commons acts as the unifying feature, connecting the iconic original structure with the later addition.

The commons is a window into Phelps' rich history and proof of its bright future. Restored brick and woodwork turn former exterior walls into a dramatic corridor, which connects the academic and public-use areas. Wireless access and large skylights make this a true destination on campus.

Designed as a teaching tool, the commons serves as a showcase of construction displays, including welding, drywall and masonry. Exposed plumbing and varied flooring—including brushed, stamped and stained concrete; porcelain tiles; and exposed aggregate—enable students to view best practices from the construction industry firsthand.

The greatness of the commons and the visual openness through the skylights remind all students who pass through of the unlimited possibilities and potential that lie ahead for them. The sky is the limit, literally and figuratively.

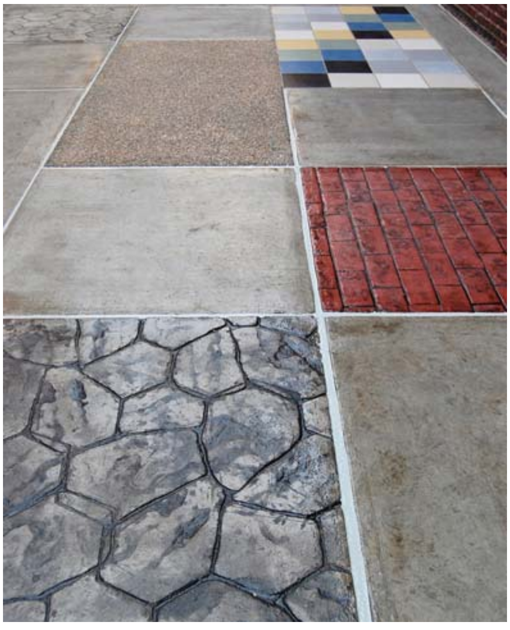






"Excellent design by utilizing space to create a timeless and artistic connection with the past. Tasteful use of different building materials along with natural lighting work very well in harmony together. This is a place that just needs to be experienced."

—2009 jury



Floor detail



Valparaiso University, Harre Union
Valparaiso, Indiana



Design Organization, Inc., Prime Architect

Associated firm: Sasaki Associates, Inc., Design Architect

Client:
Valparaiso University; Mark Heckler, President

Area of project entry category:
201,000 sq. ft.

Cost of project entry category:
$52.1 million

Cost/square foot of project entry category:
$259

Completion:
January 2009

Photographer:
Robert Benson Photography

Valparaiso University's Harre Union is positioned directly opposite the University Chapel, across the campus main open space, the University Commons. The building looks out onto the landscape of the commons and surrounding buildings, relating indoor social destinations with outdoor gathering spaces. The union plan internalizes support areas and services at the building's core and externalizes all public functions, defining an active periphery for the building, where each use becomes a destination.

A series of portals carved into the building mass receives different pedestrian pathways from cardinal points on campus, and projects them into the building, defining a major pedestrian crossroads around which program spaces are organized.

The union provides a social and administrative hub for faculty, staff, students and visitors to the campus. The building is home to the university's main dining and cafe, bookstore, student mail center, ballroom, meeting rooms, career center, student organizations, multicultural and international studies areas, administrative suites, as well as a series of lounge and recreation spaces.

Valparaiso University is a private institution situated in northwest Indiana about one hour from Chicago. Although the school dates to 1859, its most iconic landmark is the modernist Chapel of the Resurrection, built in 1959 to celebrate the school's centennial. The chapel is situated in the center of the campus and is a well-known local landmark. The new union is the third and last of a series of buildings constructed around the chapel to form the new core of the campus. The other two are the recently completed library and the performing-arts center.







"The artful selection of warm, quality materials will ensure this building will age gracefully."

—2009 jury







CITATIONS

GOLD

DLR Group
The Adelson Educational Campus
Las Vegas, Nevada .... p. 26

"A unique design, which is historical in some aspects and very progressive in others, creates a timeless environment by using a variety of materials that work very well together."
—2009 jury



Fanning Howey
Warren G. Harding Elementary School
Hammond, Indiana .... p. 27

"Overall, a good example of a well-executed design from initial design to completion. It integrated the existing site, making it workable with lots of daylight and glass. The space is very inviting."
—2009 jury



LPA, Inc.
American Career College
Ontario, California .... p. 28

"The simple, straightforward design of the overall building interior provides a wonderful combination of daylight and color, and will allow easy reconfiguration of space over the life of the building."
—2009 jury



GOLD



NAC | Architecture
Aberdeen High School
Aberdeen, Washington .... p. 29

"Excellent reuse of salvaged materials, which are displayed in a meaningful way."
—2009 jury



SHW Group
New Tech High @Coppell
Coppell, Texas .... p. 30

"This design solution reflects a true appreciation of the changing educational needs of today's students—all within a confined existing building and a very tight budget. Great job!"
—2009 jury



Zyscovich Architects
Pine Jog Elementary School and Florida Atlantic University, The FAU Pine Jog Environmental Education Center
West Palm Beach, Florida .... p. 31

"This is an incredible learning environment. The use of building material as a learning tool is extremely well-done."
—2009 jury

SILVER

Beacon Architectural Associates
Boston University, College of Arts and Science Lecture Halls B12 and 522
Boston, Massachusetts .... p. 32



"This project revitalizes two old, outdated lecture halls into state-of-the-art facilities with all the amenities. The overall design provides a warm and timeless environment for students and staff."
—2009 jury

Clark Nexsen
Duke University, Few Quad Renovation
Durham, North Carolina .... p. 33



"Well-executed design keeps the integrity of the existing architecture while modernizing the space. It uses a beautiful richness in materials and lighting to create a 'place to call home' in a residence hall."
—2009 jury

Gensler
Houston Baptist University, Residential College—The Lake House
Houston, Texas .... p. 34



"This project uses space very efficiently through a timeless design concept."
—2009 jury

SILVER

loci architecture PC
P.S. 58 Carroll School
Brooklyn, New York .... p. 36

"The colors, furnishings and casework contribute to a fantastic learning environment!"
—2009 jury



SHW Group
Frisco Independent School District, Career and Technical Education Center
Frisco, Texas .... p. 37

"The commons space reflects the very function of the facility with technology, specialty lighting and stainless steel to inspire students and staff!"
—2009 jury



YHR Partners, Ltd.
Minnesota State Community and Technical College, Student Life Addition and Remodel
Moorhead, Minnesota .... p. 38

"What a nice surprise! A tremendous and creative rebirth of an existing space that creates a warm and welcoming environment that we would love to spend some time in."
—2009 jury



Cannon Moss Brygger & Associates
Unity Elementary School
Sioux City, Iowa .... p. 39

"An inspiring, inviting space for students."
—2009 jury



The Collaborative Inc.
Central Ohio Technical College/The Ohio State University—Newark, Warner Library and Student Center
Newark, Ohio .... p. 40

"The design provides a multi-support environment using warm materials and a wide variety of spaces, creating a truly inviting environment in a student center."
—2009 jury



Landow and Landow Architects AIA LLC
The British International School of New York, Plaza View Campus, Art and Science Center
New York, New York .... p. 41

"Innovative massing and careful selections of colors combine to create an inspiring and wonderful environment to learn in."
—2009 jury



BRONZE



Texas Tech University System, Facilities Planning & Construction
Texas Tech University, School of Law, Mark and Becky Lanier Professional Development Center
Lubbock, Texas ....p. 42-43

"An elegant and rich design that combines daylight, wood and technology, yet has great flexibility to ensure the spaces age well."
—2009 jury



Treanor Architects
Education City, Residence Halls, Apartments and Residential Community Center
Doha, Qatar ....p. 44

"Great organization of site; very interesting solution."
—2009 jury

The Adelson Educational Campus

Las Vegas, Nevada



DLR Group

Associated firm: Hanlon Architects

Client:
The Adelson Educational Campus; Paul Schiffman, Head of School

Area of project entry category:
137,900 sq. ft.

Cost of project entry category:
$41,440,500

Cost/square foot of project entry category:
$300 (new construction/addition)

Total area:
173,200 sq. ft.

Total cost:
$45.5 million

Total cost/square foot:
$262

Completion:
September 2008

Photographer:
Mark Boisclair

Designers worked with billionaires Dr. Miriam and Sheldon G. Adelson to turn their dream of a pre-K to 12th-grade day school for the Southern Nevada Jewish community into reality. The primary design goal of The Adelson Educational Campus is to promote Jewish values and individual learning through a sense of place reminiscent of Israel. As a result, the school curriculum prepares students for college and adult life through lessons in art, history, language, literature, math, science and immersion in Jewish traditions.

The connection to Israel is apparent throughout the campus from materials such as Jerusalem stone, blue stone tile, concrete roof tile and stucco to the choice of colors. The color palette is based on the blue tones of the Israeli flag complemented by bright gold tones, vibrant reds and soft neutrals. This common thread connects and unifies the various activity hubs throughout the campus.

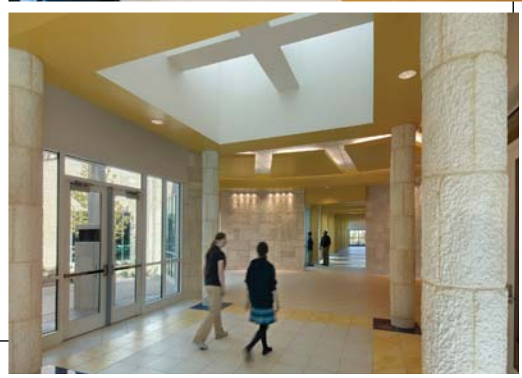
A Beit Midrash, referred to as the House of Study, facilitates religious studies and is a flexible gathering space. It is crowned with a Star of David skylight to enable daylight to flood the space.

"A unique design, which is historical in some aspects and very progressive in others, creates a timeless environment by using a variety of materials that work very well together."

—2009 jury







Warren G. Harding Elementary School
Hammond, Indiana



Fanning Howey

Client:
School City of Hammond; Walter J. Watkins, Superintendent

Area of project entry category:
4,214 sq. ft.

Cost of project entry category:
$800,660

Cost/square foot of project entry category:
$190

Total area:
104,056 sq. ft.

Total cost:
$15,670,355

Total cost/square foot:
$150.60

Completion:
August 2006

Photographer:
Timothy Stuckey/CorpComm Group

A two-day design charrette with stakeholders determined that the media center should be the focal point of this new elementary school. In keeping with the district's history, educational technology also was a high priority.

The media center is positioned immediately off the main entrance with a glass wall that enables visitors to see into the landscaped courtyard and pond on the opposite end. From the media center, students have direct access to outdoor learning spaces. Video cameras in a resident bluebird nest connect to monitors in the storytelling area, giving students a close-up view of nature.

A centrally situated workstation allows for supervision of each activity area. Two reading areas offer appropriately sized tables and chairs. The computer lab features ergonomic seating and enables the instructor to monitor all computer screens from a single location. A lowered bulkhead with task lighting and earth-toned finishes creates an intimate setting in the storytelling area, where built-in shelving doubles as bench seating. A skylight provides even, glare-free lighting, minimizing the need for artificial lighting.









"Overall, a good example of a well-executed design from initial design to completion. It integrated the existing site, making it workable with lots of daylight and glass. The space is very inviting."

—2009 jury

American Career College
Ontario, California



LPA, Inc.

Client:
American Career College; Rob Koran, Director of Administrative Services

Area of project entry category:
60,000 sq. ft.

Cost of project entry category:
$13.4 million

Cost/square foot of project entry category:
$223

Completion:
August 2008

Photographer:
Costea Photography, Inc.

The American Career College (ACC), a healthcare and medical college, presented an opportunity to create a new paradigm for this type of education facility. The two-story, 60,000-square-foot facility provides classrooms, laboratories and administrative offices on a seven-acre site in Ontario, Calif.

By taking the program elements and pulling them apart to form an interior space, the design enables students to interact in a stimulating environment, enhanced by transparent classrooms, inspiring graphics and a welcoming gathering area. The "Quad" incorporates artificial turf, park-like benches and colorful furniture to create an engaging "out of classroom" area for social interaction.

The design utilized glass efficiently and creatively. Students at work are showcased in glass-partitioned classrooms, fostering a transparent environment where students are surrounded by learning and have increased access to teachers. This transparency symbolizes the elimination of barriers by attending this school, and fosters a collaborative environment rich with visible academic and social activity. In addition, the use of glass creates an open environment that harvests daylight, and intelligent interior lighting strategies reduce energy usage.

"The simple, straightforward design of the overall building interior provides a wonderful combination of daylight and color, and will allow easy reconfiguration of space over the life of the building."
—2009 jury







GOLD CITATION

Aberdeen High School
Aberdeen, Washington



NAC | Architecture

Client:
Aberdeen School District; Marty Kay, Superintendent

Area of project entry category:
2,277 sq. ft.

Cost of project entry category:
$473,616

Cost/square foot of project entry category:
$208

Total area:
204,000 sq. ft.

Total cost:
$42,510,370

Total cost/square foot:
$208

Completion:
August 2007

After fire burned the original J.M. Weatherwax School, the prominent reuse of salvaged sandstone panels from the historic building was a design priority for the new Aberdeen High School. The team adopted the display of "historic artifacts" as the concept direction. Three public areas were identified as appropriate, and pieces were selected to fit each area. The original J.M. Weatherwax sign was placed in the front foyer, three very large panels in the commons, and a series of smaller decorative pieces in the library gallery.

The display structures are constructed with structural steel tubes and plates used to float the heavy stone objects above a cabinet of medium-density fiberboard. Track lighting provides a sparkle and finishing touch for the display. In the library gallery, the individual stones, displayed along the length of the corridor, are connected by benches framing wall space designed to display photos of local historical significance or notable works of art by alumni of Aberdeen High School.

Adding another historical reference, the vinyl composition tile floor of the school suggests the color and texture of traditional terrazzo floors, complete with a decorative border.





"Excellent reuse of salvaged materials, which are displayed in a meaningful way."
—2009 jury



GOLD CITATION

INTERIOR RENOVATION

New Tech High @ Coppell

Coppell, Texas



SHW Group

Client:
Coppell Independent School District; Tabitha Branum, Director

Area of project entry category:
62,700 sq. ft.

Cost of project entry category:
$2,233,519

Cost/square foot of project entry category:
$35.62

Completion:
August 2008

Photographer:
Paul Bardagjy Photography

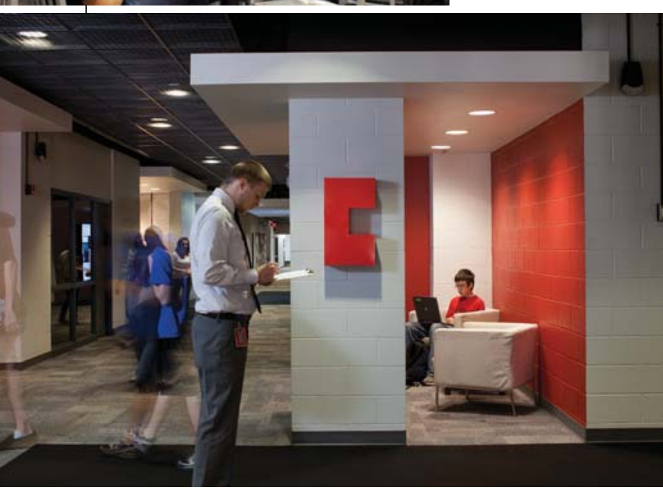
How do you provide a customized environment that embraces a new digital world and provides opportunities for students to integrate technology with education in a collaborative manner? Leaders at Coppell Independent School District reached out to the community, and a committee was formed to make recommendations that were both practical and progressive.

The design had to accommodate a radical shift from the classroom layout in the existing elementary school that was renovated for the project. By strategically removing walls in some locations and opening up others with glass, the design transforms the spaces from stand-and-deliver classrooms to energized, multi-use spaces. Certain rooms open out to hallways for collaboration and teaming. An open plan, movable furniture and a wireless network enable students to configure their own learning environments based on the size of the team and the project at hand.



"This design solution reflects a true appreciation of the changing educational needs of today's students—all within a confined existing building and a very tight budget. Great job!"

—2009 jury







Before

GOLD CITATION

COMMUNITY CENTERS/JOINT-USE FACILITIES

Pine Jog Elementary School and Florida Atlantic University, The FAU Pine Jog Environmental Education Center

West Palm Beach, Florida



Zyscovich Architects

Client:
The School District of Palm Beach County and Florida Atlantic University; Joe Sanches, Chief of Facilities Management

Total area:
155,000 sq. ft.

Total cost:
$26,493,398

Total cost/square foot:
$170.92

Completion:
August 2008

Photographer:
Moris Moreno



"This is an incredible learning environment. The use of building material as a learning tool is extremely well-done."
—2009 jury

The Pine Jog Campus is pioneering a new direction for green schools in Florida. The mission is to inspire and excite children and residents in the science and art of restoring the natural landscape, and promoting our role as responsible citizens in safeguarding the planet's natural resources. Collectively, the partners are integrating the curriculum to provide a comprehensive program of ecological awareness and stewardship. The entire 150-acre parcel was master-planned to serve as an outdoor classroom, and the two adjacent buildings synergize their programs, building systems and design features. Both the replacement Environmental Education Center and the elementary school will be LEED gold-certified. The buildings were designed to make many of their environmental benefits obvious to the occupants and teachers—the buildings themselves teach.

The regenerative site design includes habitat and tree preservation, native pineland landscape, wildlife habitats, stormwater collection and conservation, soil composting and an interactive sundial. The Solar Plaza combines solar technologies (photovoltaics and hot water) for students to see and monitor with computers. Signage explains the buildings' LEED features, including preferred alternative-fuel and carpool vehicle parking; water-efficient plumbing; recycling stations, and the use of recycled and locally available construction materials; highly efficient and visible mechanical equipment; and polished concrete floors at high-use areas.





Boston University, College of Arts and Science Lecture Halls B12 and 522 · *Boston, Massachusetts*









Beacon Architectural Associates

Associated firm: Kristine Stoller Interior Design

Client:
Boston University; Colleen McGinty, Director of Construction Services

Area of project entry category:
3,909 sq. ft.

Cost of project entry category:
$1,136,901

Cost/square foot of project entry category:
$290.84

Completion:
September 2008

Photographer:
Lucy Chen/Lucy Chen Photography

"This project revitalizes two old, outdated lecture halls into state-of-the-art facilities with all the amenities. The overall design provides a warm and timeless environment for students and staff."
—2009 jury

Boston University approached the architect with a project for two lecture halls in its College of Arts and Science building. The rooms would be used as teaching, lecture and presentation spaces by a variety of disciplines. The program requirements necessitated renovation and modernization of the space, including finishes, audio-visual components and mechanical systems. In addition, each room had to be made handicapped-accessible without diminishing the amount of student seating.

The response was to strip each lecture hall to its core and shell, and introduce new and modern materials. Finishes were chosen based on audiovisual necessity depending on function during lectures and presentations. Modern audiovisual components were brought in, including high-definition projectors and wide-format screens. Wireless capability and camera installation were included for future off-site broadcasts. Lighting fixtures were installed along with dimming controls and automatic window shades. A new air-handling system regulates and enhances the interior climates.

Duke University, Few Quad Renovation
Durham, North Carolina



Clark Nexsen

Client:
Duke University; Paul O. Manning, Director of Project Management

Area of project entry category:
130,267 sq. ft.

Cost of project entry category:
$20,588,611

Cost/square foot of project entry category:
$158.05

Completion:
January 2009

Photographer:
Richard Boyd/Boyd Photography

Few Quad at Duke University was constructed in 1938 and includes three L-shaped buildings that form two quadrangles in the heart of the historic campus. These Collegiate Gothic-style buildings with stone exteriors house 452 residents in living groups along with a faculty-in-residence.

The goals of the renovation were to update interior finishes, renovate all bathrooms, update MEP and fire-protection systems, provide increased ADA accessibility, and provide commons rooms on all main levels and a new faculty-in-residence apartment. The stunning success of the project was because, in large part, of the selection of new interior finishes, which complement the existing architectural features and the historical context, such as new wood paneling in the commons and sixth-floor study designed to emulate the original wood paneling prevalent in the building.

This project has been registered for LEED silver certification. Sustainable-design strategies included water-use reduction, energy savings, recycled and rapidly renewable materials, construction waste management and indoor air quality plans, low-VOC finish materials, daylighting and individual controls.

The renovation also included an upgraded HVAC system with variable-air-volume terminal box in each room, lighting and electrical upgrades, and replacement of plumbing lines and fixtures.

"The well-executed design keeps the integrity of the existing architecture while modernizing the space. It uses a beautiful richness in materials and lighting to create a 'place to call home' in a residence hall."

—2009 jury







SILVER CITATION

RESIDENCE HALLS/LOUNGES

Houston Baptist University, Residential College—The Lake House

Houston, Texas



Gensler

Associated firm: Fisher Friedman & Associates

Client:
Houston Baptist University; Kathleen Anzivino, Associate Vice President

Area of project entry category:
130,681 sq. ft.

Cost of project entry category:
$28.5 million

Cost/square foot of project entry category:
$218

Completion:
August 2008

Photographer:
Joe Aker, Aker/Zvonkovic Photography

Houston Baptist University's new Residential College, known as The Lake House, is the first component of a plan to support the growth and enhance the experience of its undergraduate community. The new Residential College was designed to encourage the development of a student community within the building.

Six basic suite types provide on each floor a variety of accommodations geared toward freshmen and upper-class students. Front porches—a widening of the corridor outside each unit—are provided as places for casual interaction to occur. Other amenities including study rooms, a prayer chapel, parlor, activity lounge/laundry room combination, vending area, fitness facility and outdoor terraces all are provided as places for students to interact and develop a sense of community.

The six-story building includes 95 units providing 340 beds. Freshmen suites include five single rooms or three double rooms supported by two bathrooms. Accommodations for upperclassmen include one- and two-bedroom apartments. Each floor also includes three resident-adviser units.

The plan of the building is curved to reduce its apparent length. The design of the building reflects the architectural vernacular of the campus through the use of brick, stone and a metal hipped roof. The site design includes an oval pond that complements the curvilinear facade of the building. An outdoor plaza and shade structure adjacent to the pond provide a setting for outdoor social events.

"This project uses space very efficiently through a timeless design concept."

—2009 jury









P.S. 58 Carroll School
Brooklyn, New York



Firm: loci architecture PC

Client:
New York City Department of Education; Giselle McGee, Principal

Area of project entry category:
1,200 sq. ft.

Cost of project entry category:
$190,000

Cost/square foot of project entry category:
$158

Completion:
October 2008

Photographers:
John Bartelstone; David Briggs (before)

The library at P.S. 58 Carroll School, a public elementary school in Brooklyn, N.Y., represents a collaboration among parents and school administrators who collectively participated in the project's design and fund-raising activities.

Prior to starting the project, the "library" was a dreary space that was being used as an ad hoc science classroom. The goal was to rediscover the library's purpose as a rich curriculum resource within a public school. Rolling bookshelves allow for larger school gatherings, author visits and dance classes, and a vibrant palette of materials reflects the spirit and warmth of a learning environment.

An abstract solar system design in natural linoleum flooring and custom furniture create a playful juxtaposition of curved geometries. Bold stripes of the palette colors float behind sanded acrylic, an abstraction of book spines stacked side by side on a shelf.

Murals by parent artists show how exploration extends beyond the Earth, and includes the history, myths and fables of youth.





Before



"The colors, furnishings and casework contribute to a fantastic learning environment!"

—2009 jury

Frisco Independent School District, Career and Technical Education Center · *Frisco, Texas*



SHW Group

Client:
Frisco Independent School District; Wes Cunningham, Director of Career and Technical Education

Area of project entry category:
24,816 sq. ft.

Cost of project entry category:
$3,970,560

Cost/square foot of project entry category:
$160

Total area:
125,000 sq. ft.

Total cost:
$26 million

Total cost/square foot:
$204.72

Completion:
August 2008

Photographers:
Hester + Hardaway; Terry Weir Photography; Paul Bardagjy Photography

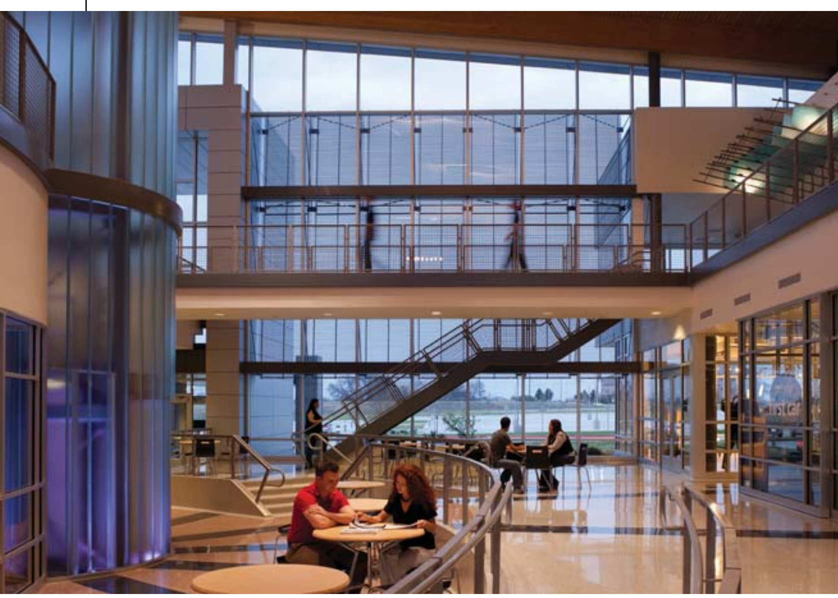




The architect teamed with Frisco Independent School District to form a vision of a career and technical center like no other. Together, they developed a design that combines a traditional vocational training program with a college prep offering a full-range of advanced coursework. The concept was to provide resources for multiple high school campuses within a single building. The result, the Frisco ISD Career and Technical Education Center, is a truly singular offering.

The heart of the building is an expansive open space used for collaborating and gathering. A huge flatscreen monitor displays student work, and advertises programs and district activities that connect students with the public.

Upon approach, visitors are connected, through large expanses of glass, to the multitude of activities taking place in the center. Once inside, the shifting colors of the glass elevator draw a person's gaze up and around, showing a working bank, career center, the school's restaurant, deli and store, all alive with energy.



"The commons space reflects the very function of the facility with technology, specialty lighting and stainless steel to inspire students and staff!"

—2009 jury

SILVER CITATION

STUDENT CENTERS/SERVICE AREAS

Minnesota State Community and Technical College, Student Life Addition and Remodel · *Moorhead, Minnesota*





"What a nice surprise! A tremendous and creative rebirth of an existing space that creates a warm and welcoming environment that we would love to spend some time in."

—2009 jury





The original 1960s building housed mostly trades-related programs, and subsequent additions accommodated more of the general education, arts and sciences. The existing student commons was situated on the far end of the campus, extremely dated and grossly undersized for its current student population.

The campus challenged the architect to create a new student commons central to all students to encourage student-faculty interaction, and portray a more collegiate atmosphere.

An existing trades lab central to the campus was selected because of its location and high-volume space. The roof structure at the adjacent corridor was raised to allow the addition of clerestory windows for daylighting. Bright colors and fabrics enliven the space, and a stone fireplace provides a focal point and adds to the cozy, welcoming atmosphere.

A new bookstore /snack bar provides extended service for evening and weekend programs. A multimedia community room off the commons provides ideal space for campus meetings, seminars and community outreach.

The project also included a new trades lab, lecture rooms, and major mechanical and electrical infrastructure upgrades.

YHR Partners, Ltd.

Client:
Minnesota State Community and Technical College; Jerome Migler, Provost

Area of project entry category:
9,400 sq. ft.

Cost of project entry category:
$987,000

Cost/square foot of project entry category:
$105

Total area:
39,200 sq. ft. (total): 15,600 sq. ft. (renovation); 23,600 sq. ft. (additions)

Total cost:
$5,872,200

Total cost/square foot:
$149.80

Completion:
January 2007

Unity Elementary School
Sioux City, Iowa



Cannon Moss Brygger & Associates

Client:
Sioux City Community Schools;
Larry D. Williams, Superintendent

Total area:
89,107 sq. ft.

Total cost:
$9,186,483 (construction)

Total cost/square foot:
$102

Completion:
July 2008

Photographer:
Paul Brokering

Schools often are nostalgic brick boxes designed by adults for adults. This school was designed for imaginative children who are not confined by straight lines and dull colors. It features a variety of shapes, colors, materials and textures. The core spaces were designed for anticipated expansion.

A cooperative community effort involving the school district and the city (which participated in the cost and planning) was required. Coordination with the district, city, civil engineers, architects, adjoining property owners, and separate site and building contractors had to be orchestrated carefully to meet schedules and co-occupy the same site.

The colors, shapes and textures of the various materials not only gave the building a unique look, but also lowered costs and enhanced the speed of construction. Comparative schools built simultaneously in the district cost 25 percent more and had construction periods three to four months longer.

"An inspiring, inviting space for students."
—2009 jury







Central Ohio Technical College/The Ohio State University—Newark, Warner Library and Student Center · *Newark, Ohio*



The Collaborative Inc.

Client:
Central Ohio Technical College/The Ohio State University—Newark; Brian Boehmer, Campus Architect

Total area:
86,700 sq. ft.

Total cost:
$14.5 million

Total cost/square foot:
$170

Completion:
September 2008

Photographer:
Feinknopf

This warm, nurturing building is a home-away-from-home for students. All three building entries converge in the central atrium with the hearth. Open views from here let students connect immediately to the library, lounge and dining areas. These physical connections mimic the building's philosophy of melding functions. Food and books are allowed to move freely throughout the many spaces. This multitasking facility includes the library, academic support, student dining, various lounges, a bookstore, student affairs and faculty offices.

The Warner Center's blended approach keeps pace with the changing image of today's college library. As students are able to do more research online, the library becomes less focused on searching amongst aisles of books and more about finding quiet study space. The warm wood tones and soft seating options, combined with the availability of food and coffee, invite students to linger—and study—longer.

The architect situated the stacks and research areas in the core of the library so that student study areas could be positioned along the outer wall, taking advantage of the abundance of natural light and views.

"The design provides a multi-support environment using warm materials and a wide variety of spaces, creating a truly inviting environment in a student center."
—2009 jury







BRONZE CITATION

INTERIOR RENOVATION

The British International School of New York, Plaza View Campus, Art and Science Center · *New York, New York*





Landow and Landow Architects LLC AIA

Client:
British International School of New York; Abigail Greystoke, Director

Area of project entry category:
4,000 sq. ft.

Cost of project entry category:
$1,169,500

Cost/square foot of project entry category:
$292.38

Completion:
September 2008

Photographer:
Paul Warchol



Before

"Innovative massing and careful selections of colors combine to create an inspiring and wonderful environment to learn in."

—2009 jury

This New York City private school, overlooking the East River, needed to expand its facilities to serve a growing enrollment. The completed expansion houses state-of-the-art science and art facilities, as well as general classrooms and student changing facilities.

First seen from the exterior, an undulating wall in the school's signature red, dominates the entry experience. The wall, and all surrounding textures and colors, as described by the school's director, "are evocative of energy and positivity, key in an environment for children."

Natural light is brought into all classroom spaces through windows or borrowed lights. Dropped ceilings were removed to expose the building's systems and construction to the students. The art studio, the showcase of the school, makes use of floor-to-ceiling windows in the existing storefront. Students' privacy is protected through the use of a custom translucent resin screen, which also serves to display student work.

A continuous corridor winds through the school and provides changing experiences as students and faculty move through the space.

In the words of the school's director, "Project objectives were met, achieving an impressive combination of aesthetics and functionality."





Texas Tech University, School of Law, Mark and Becky Lanier Professional Development Center · *Lubbock, Texas*



Texas Tech University System, Facilities Planning & Construction

Associated firm: SHW Group

Client:
Texas Tech University, School of Law; Michael A. Ellicott, PE, Vice Chancellor

Area of project entry category:	Cost of project entry category:
11,250 sq. ft.	$2,613,937

Cost/square foot of project entry category:
$232.35

Total area:	Total cost:	Total cost/square foot:
34,560 sq. ft.	$8,030,016	$232.35

Completion:	Photographer:
April 2008	David Rose/SHW Group

Although Texas Tech's School of Law has an enviable reputation with an excellent bar exam pass rate and a designation as one of America's top law schools for best value—the 1960s building desperately needed upgrading. The school had outgrown its largest classroom, had an abundance of interior brick walls unable to accommodate the newest technology needs and had no place for an entire law class to meet. The design provides a seamless addition to the existing law school building and resolves the functional issues with flexible spaces and advanced technology.

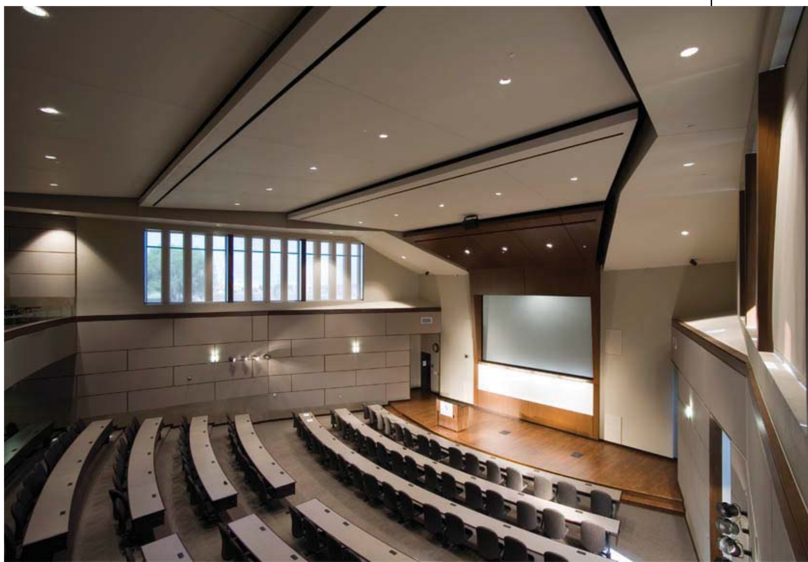
Many spaces serve as classrooms in addition to their primary function. A state-of-the-art courtroom was designed as a laboratory for law students where actual cases can be heard. Created with removable millwork and a floor stage, the courtroom can adapt to seat anywhere from one judge up to nine in order to host the full Supreme Court. The auditorium accommodates a complete incoming class of law students. It hosts graduation ceremonies, professional-development courses, and also functions as a classroom using the latest technologies for enhanced evidence-finding and real-time remote-witness capabilities. Although not a formal classroom, the convocation area is a daily student study space and gathering area, and also can be used as a dining or prefunction space for special events. Other informal study spaces are dispersed throughout the building and enable views to the exterior.

The goal of the interior design was to provide an updated image with an improved learning environment while matching the prestige, class and tradition the law school exemplifies. Rich, neutral colors and dark walnut wood combine with natural lighting to warm the interiors and provide a classic, yet relaxing atmosphere.





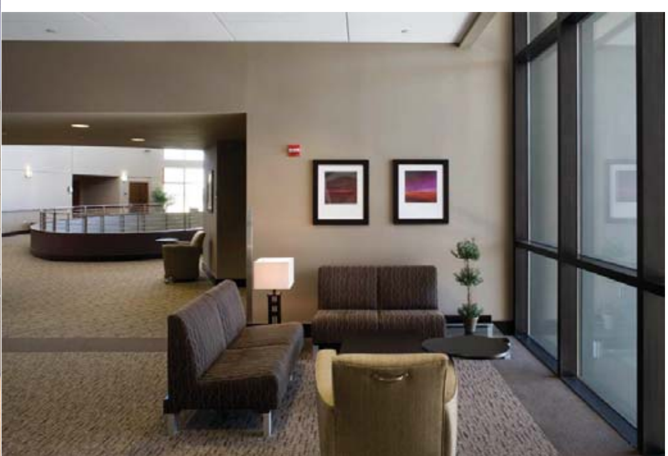






"An elegant and rich design that combines daylight, wood and technology, yet has great flexibility to ensure the spaces age well."

—2009 jury





BRONZE CITATION

INTERIOR WORK IN PROGRESS

Education City, Residence Halls, Apartments and Residential Community Center · *Doha, Qatar*



Treanor Architects

Associated firm: Burns & McDonnell Engineering

Client:
Qatar Foundation for Education, Science & Community Development; Kevin Konecny, Director, Campus & Residence Life

Total area:
850,000 sq. ft.

Completion:
2011

"Great organization of site; very interesting solution."
—2009 jury

Education City is a 2,500-acre campus, situated on the outskirts of Doha, that hosts branch campuses of some of the world's leading universities (Virginia Commonwealth, Carnegie Mellon, Georgetown, Cornell, Texas A&M and Northwestern).

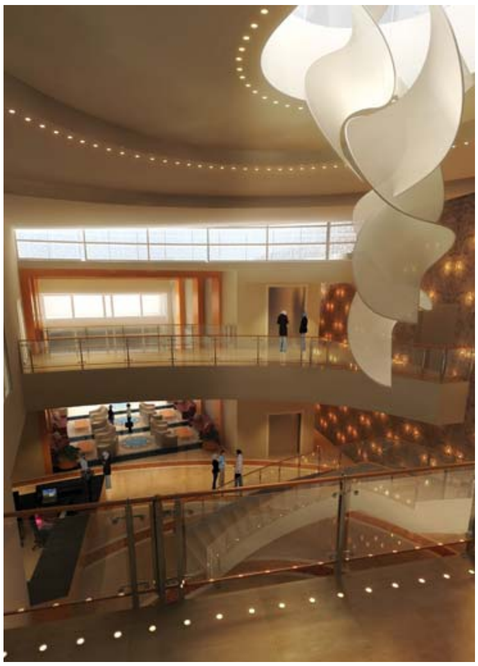
The architect won a competition to design these two new gender-specific student complexes that comprise residence halls, apartments and residential community centers. The design's main objective was to create an experience, inseparably linked to a living environment, where students can thrive personally, socially, spiritually and academically, creating a community that expresses the idea of unity and connection. These goals are conveyed architecturally through the elements of geometry, rhythm and light.

Rooted in ACUHO-I 21st Century Project design principles, the new complexes consider Education City's unique culture and make use of cutting-edge innovations in security, technology and sustainability. The project is designed to achieve platinum LEED certification, maximizing efficiency of energy and water use through numerable sustainable features such as wind turbines, photovoltaic cells and a biomass wall with grey-water filtration.



The female site

LEGEND
1. Residence hall #1
2. Residence hall #2
3. Residential community center
4. Apartment #1
5. Apartment #2
6. Apartment #3







OUTSTANDING DESIGNS

ADMINISTRATIVE AREAS/OFFICES

AUDITORIUMS/MUSIC ROOMS

CAFETERIAS/FOOD-SERVICE AREAS

CAFETERIAS/FOOD-SERVICE AREAS (CONT.)

CLASSROOMS

COMMON AREAS

CONTINUED...

OUTSTANDING DESIGNS

CONTINUED...

PHYSICAL-EDUCATION FACILITIES/ RECREATION CENTERS


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PRE-K/EARLY-CHILDHOOD EDUCATION

RESIDENCE HALLS/LOUNGES

STUDENT CENTERS/SERVICE AREAS

TECHNOLOGY CENTERS

VOCATIONAL/INDUSTRIAL-ARTS AREAS

Hoffman Estates High School
Hoffman Estates, Illinois



ARCON Associates, Inc.

Client:
Township High School District 211;
Nancy Robb, Superintendent

Total area:
112,500 sq. ft.

Total cost:
$19,173,000

Total cost/square foot:
$170

Completion:
August 2008

A facility utilization study indicated higher than normal utilization rates at this northwest suburban high school district. The study prompted an expansion of Hoffman Estates High School.

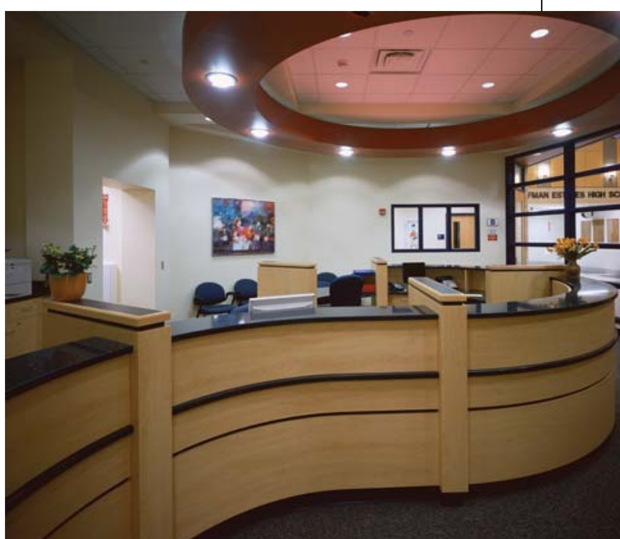
The auxiliary gymnasiums were expanded to allow for spectator seating, along with the addition of a visiting team room. The library was expanded for increased flexibility while, at the same time, opening up the exterior facade to allow for daylighting. Additional classrooms were added to the upper and lower levels above and below the library expansion.

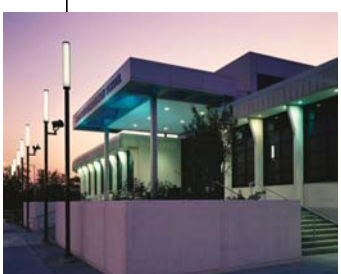
An administrative office suite was added, and a main entrance created for greater security and visitor control. This also designated the high-profile, fully glazed addition as the obvious main entrance to the building.

New classrooms were created where the administrative offices were vacated. The science department was demolished and replaced with a state-of-the-art department, complete with 15 new science labs of all disciplines, prep rooms, storage rooms and a new science department office.







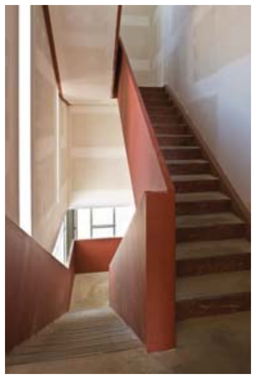




Rochester Institute of Technology, Administrative Services Building and Innovation Center · *Rochester, New York*









Chaintreuil | Jensen | Stark Architects, LLP

Client:
Welliver McGuire Inc.; James H. Watters, Senior Vice President of Finance and Administration

Total area: 53,032 sq. ft.

Total cost: $12 million

Total cost/square foot: $226

Completion: May 2009

Photographer:
Don Cochran Photography

The Administrative Services Building and Innovation Center at the Rochester Institute of Technology (RIT) is intended to be a "one-stop shop" incubator to foster multidisciplinary work groups, as well as individual research teams. Above all, it is a place for RIT to showcase the latest research and technology.

Floor-to-ceiling windows provide panoramic and inspiring views of the campus from inside the space and enable passersby and new students the opportunity to see firsthand the projects and activities that RIT faculty and students are working on.

At the Administrative Services Building, "We are bringing everything together in one place and revolutionizing our service delivery model for students," say RIT's James H. Watters, senior vice president of finance and administration.

The student-services lobby, 4,000 square feet, provides students with an integrated location for handling business related to finances, scheduling, parking and housing. Several other RIT administrative departments are situated in the balance of the building, which totals 53,000 square feet.

This project is registered with the USGBC and is in pursuit of LEED platinum. The design embraced LEED-NC strategies to construct a sustainable and energy-efficient building by developing creative solutions for the categories set forth by the USGBC. Some of these include techniques in insulation and weatherproofing, white roofing to limit heat gain, large expanses of glass to allow for daylight infiltration and exterior views to building occupants, and enhanced monitoring of building systems. This was done while still complementing the campus' adjacent surroundings.

Purdue University Calumet, School of Management, Anderson Building · *Hammond, Indiana*



DeTella Planera Architects

Client:
Purdue University Calumet;
Martine Duchatelet, Dean, School of Management

Area of project entry category:
3,400 sq. ft.

Cost of project entry category:
$358,000

Cost/square foot of project entry category:
$105

Completion:
October 2008

Photographers:
Tom Hocker; Emil McCauley









The circa 1960s Purdue University Calumet Anderson Building that houses the School of Management was in need of a remodel to accommodate a reorganized and growing progressive School of Management. The rationale for the remodel included the following objectives: the need for additional faculty offices, creation of an administrative complex and a desire to market the school's educational programs.

Because of growth in the program, the School of Management required a remodel of the administrative offices, which created an administrative complex to house the dean, department heads, their support staff and filing requirements.

A primary project outcome was the creation of a student-advising center. Prior to the remodel, student advisers were scattered throughout the floor amid the faculty offices. There was no sense of place or identity for the advising function. The old, inefficient space plan was reworked to create space for offices that are situated centrally and student-centered.

The strong interiors now market the program's excellent academic quality and the progressive, real-world training the School of Management provides.

Rogers Heritage High School
Rogers, Arkansas



Hight-Jackson Associates, PA

Client:
Rogers School District; Janie Darr, Superintendent

Area of project entry category:
9,549 sq. ft.

Cost of project entry category:
$1.3 million

Cost/square foot of project entry category:
$135

Total area:	**Total cost:**
338,000 sq. ft.	$39.7 million
Total cost/square foot:	**Completion:**
$117.50	August 2008

Photographer:
Janet Warlick/Camera Work, Inc.

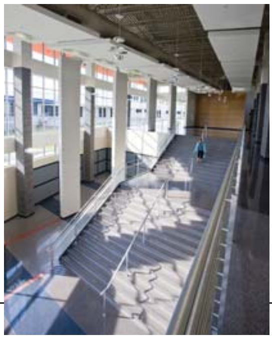
When student enrollment growth required a second high school, the former high school, being used as a 10th-grade center, was chosen as the site. The architect's challenge for the expanded high school was that it be "equitable" with the existing high school in appearance, size and opportunities for learning. The existing campus consisted of several separate buildings on different levels connected by covered walkways. The challenge of providing interior connections between the buildings that were retained, while creating new spaces that present a unified appearance, was daunting.

The new administrative area, situated at the front of the campus, features a two-story curved glass wall with bright orange EIFS above. The secured vestibule entry to the office on the lower level is connected by a monumental stair to the main level where career/college counseling is situated.

The project was constructed using a structural system of conventional steel framing and concrete retaining walls, with the administration area being a combination of concrete masonry unit perimeter walls and metal stud with gypsum board.









South Central Service Cooperative
North Mankato, Minnesota



I&S Group, Inc.

Client:
South Central Service Cooperative;
Les Martisko, Executive Director

Area of project entry category:
12,223 sq. ft.

Cost of project entry category:
$2.2 million

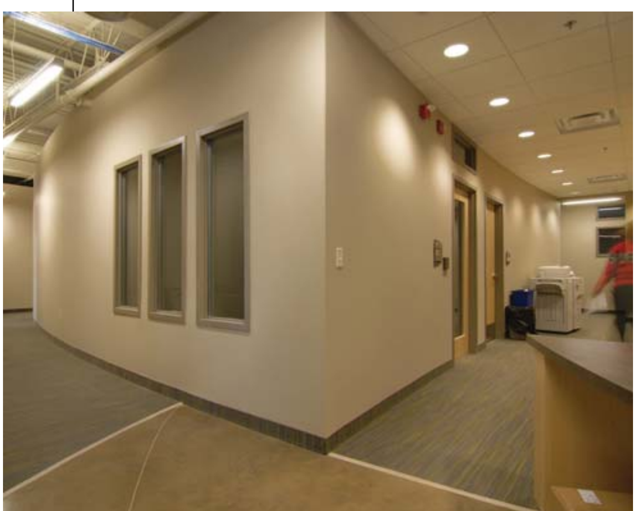
Cost/square foot of project entry category:
$180

Completion:
November 2007

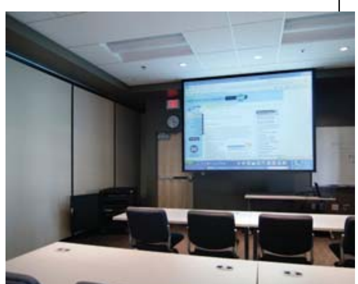
Photographer:
Andrew Breck

The South Central Service Cooperative (SCSC) serves more than 100 member institutions by cooperatively hosting administrative and educational services for the region. The new 12,000-square-foot facility enables them to more effectively enhance the education of more than 10,000 students by utilizing state-of-the-art technology, including videoconferencing, interactive TV, distance learning and rural school interconnection. Services include student academic outreach programs, health and safety programs, cooperative purchasing, wellness, health insurance, technology services and more.

To meet the Cooperative's programmatic needs, an efficient dual-use (administrative offices and conference center) facility capable of future expansion was designed. Shortly after construction began, the Mankato School District recognized the benefits of physically—and to some degree, programmatically—attaching itself to this facility, and design work began immediately to meet the needs of an early-child-development center.



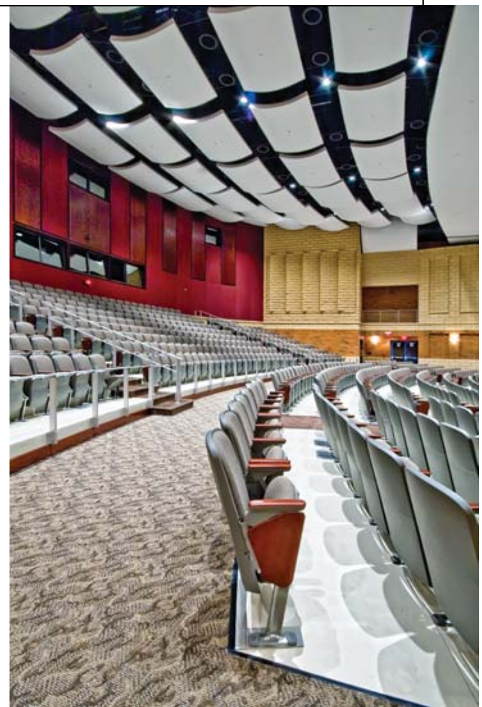






Lincoln-Way North High School, Performing Arts Center
Frankfort, Illinois







DLA Architects, Ltd.

Client:
Lincoln-Way High School District 210; Lawrence A. Wyllie, Superintendent

Area of project entry category:
57,098 sq. ft.

Cost of project entry category:
$15 million

Cost/square foot of project entry category:
$262.71

Total area:	**Total cost:**
414,000 sq. ft.	$85,928,592
Total cost/square foot:	**Completion:**
$207.56	August 2008

Photographer:
Alexander Romanovsky/DLA Architects



This performing-arts center is unique in that it was designed not only to manage the diverse uses of a high school, but also to serve as home for a nationally recognized, professional orchestra. In collaboration with acoustical experts, the architect explored treatments of the auditorium to maximize the flexibility of the space. Ultimately, the space was designed to function effectively for educational use, while specifically providing the superior acoustical properties required for Illinois Philharmonic performances.

In the theater, music, band, choral and practice rooms, the design and materials complement precise acoustic requirements. In the auditorium, the mix of materials that provides an optimal performance space for the professional orchestra includes shaped brick and stone walls, fabric-covered wall panels, split-faced concrete masonry units that function as sound diffusers, combined with strategically placed acoustical clouds.

The stage, enhanced with elevated tech decks on each side of the proscenium, accommodates 75 musicians. With the orchestra pit infill platform up at stage level, the extended apron accommodates an orchestra plus chorus performances, along with major theatrical productions.

Uniondale High School, Auditorium Renovation
Uniondale, New York



Firm: John A. Grillo, Architect PC

Associated firms: Riedel Audio & Acoustics, Acoustical; JFG Engineering, Electrical; Capano & Parker Engineers, Mechanical

Client:
Uniondale Union Free School District;
William Lloyd, Superintendent

Total area:
22,020 sq. ft. (includes auditorium, band rooms and 3,000 sq. ft. of new construction)

Total cost:
$5,430,685

Total cost/square foot:
$250

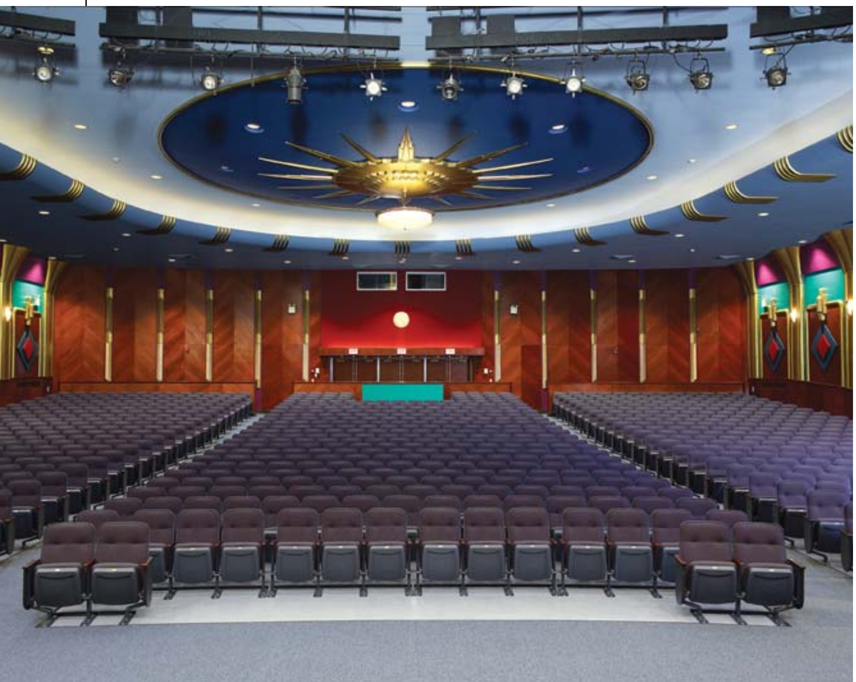
Completion:
May 2008

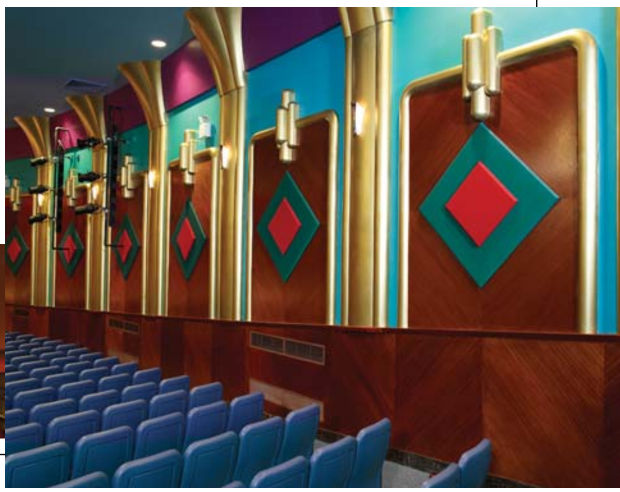
Photographers:
Wunsch Sweeney Advertising;
Riedel Audio & Acoustics (before);

Uniondale Union Free School District desired to renovate its 1950s high school auditorium into a modern, state-of-the-art performance center. The district was very interested in providing students with a space that equaled their exceptional talents. The existing auditorium was poorly lighted and had numerous acoustical problems. Most of the existing building, including the auditorium, had been designed in the art-deco style.

The redesign kept some of the original aesthetic elements but added details, such as the deco-inspired ceiling dome. It incorporated acoustical properties that improved the clarity and overall acoustics now experienced by audience members.

The district was fond of the original ceiling surround and Honduras Mahogany paneling, so the new ceiling was designed with similar geometry, and the unique wood paneling was restored to keep the existing feel. New art-deco accents were added to the existing walls throughout. New high-quality technology was added in perfect concert with the bold new colors to make this a unique public performance center.







Before



Before

Waynflete School, Waynflete Arts Center Theater
Portland, Maine



Scott Simons Architects

Client:
Waynflete School; Mark Segar, Head of School

Area of project entry category:	**Cost of project entry category:**
13,973 sq. ft.	$3,381,000

Cost/square foot of project entry category:
$242

Total area:	**Total cost:**
32,500 sq. ft.	$4,926,000

Total cost/square foot:	**Completion:**
$151	January 2009

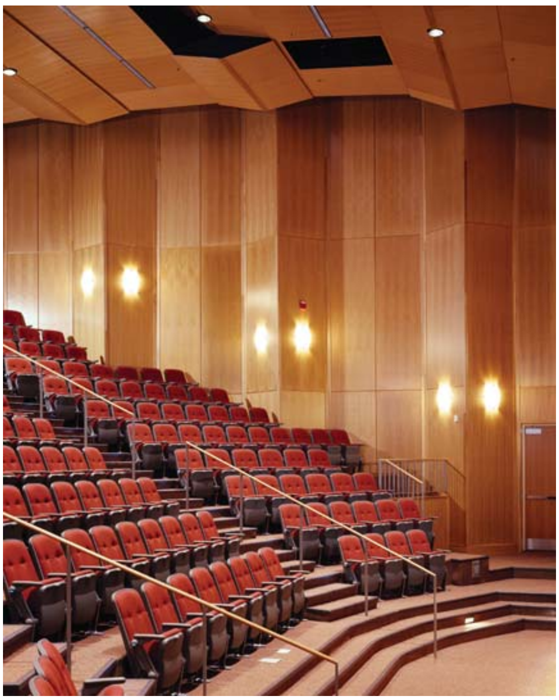
Photographer:
Brian Vanden Brink

The Waynflete Arts Center houses performing- and visual-arts space, including a 275-seat theater, studios, rehearsal rooms, classrooms and support spaces. The featured space is the theater, which has a proscenium stage, removable thrust, professional audio/video capabilities and a lighting/sound booth. Designed as a performing-arts "laboratory," all areas of the theater are used for teaching, including catwalks, fly spaces, sound and lighting systems, and the booth.

The theater also serves as an all-school assembly space. Remote-control black-out shades enable the space to be daylighted for lectures and darkened for theatrical performances. The sculpted wooden ceiling and walls provide ideal acoustics for theatrical, vocal and musical performances.

Mechanical equipment is situated remotely to isolate noise. Conditioned air is delivered to the theater by registers beneath each seat. Wall assemblies provide acoustic isolation among the rehearsal, theater and public spaces. Energy-conserving components include low-velocity plenum-air distribution, CO_2 and daylight sensors, ultra-low-flush urinals, dual-flush toilets and high-efficiency mechanical systems. LEED silver certification is anticipated.









Bergen Academies, Cafeteria Expansion and Renovation
Hackensack, New Jersey



DMR Architects

Associated firms: French and Parrello Associates, PA, Structural Engineer; Linwood Engineering Associates, MEP Engineer

Client:
Bergen County Technical Schools; Robert J. Aloia, Superintendent

Total area:
11,000 sq. ft.

Total cost:
$3.8 million

Total cost/square foot:
$346

Completion:
August 2008

Photographer:
Wing Wong/Memories TTL

Intended to serve as a multipurpose space, the renovated and expanded cafeteria at Bergen Academies is designed to enhance the school's mission of providing a unique learning experience to its students. Through a renovation and adaptive re-use of a 1950s structure, the existing cafeteria of 1,500 square feet was transformed into an 11,000-square-foot space.

Organized around the concept of flexibility and adaptability, the cafeteria is divided into two floors—the main cafeteria with expanded full-service kitchen has a total area of 8,950 square feet and is situated on the second floor. On the first floor, an existing 2,000-square-foot classroom was converted to an auxiliary dining area complete with a warm-up kitchen.



The school day is officially in session from 8 a.m. until 4:10 p.m., but frequently extends beyond with various activities, sports, carrier-related programs, meetings, and distance video-conferences and training. The spaces support these activities and serve as study halls and gathering space for students between classes to foster positive social interactions and impromptu meetings.

High ceilings and controlled daylight enliven learning spaces and create a sense of openness. The exterior volume is defined by metal panel siding, glass and exposed steel construction, creating a unique experience.





Grosse Ile High School
Grosse Ile, Michigan



French Associates, Inc.

Client:
Grosse Ile Township School District; Dena Dardzinski, Superintendent

Area of project entry category:
6,000 sq. ft.

Cost of project entry category:
$539,939

Cost/square foot of project entry category:
$89.99

Total area:	Total cost:	Total cost/square foot:
119,100 sq. ft.	$8.5 million	$71.36

Completion:	Photographer:
August 2008	Steve Maylone/Maylone Photography

Originally constructed in the 1950s, Grosse Ile High School was completely remodeled and enlarged during the 2007-2008 school year. The existing cafeteria and media center had been undersized and outdated. Consequently, a new cafeteria and media center were constructed. The additions were designed with curved exterior walls featuring large spans of glass and allowing maximum natural light into these spaces. In contrast to the former building's rectangular form and limited windows, the addition curves to form a fluid edge similar to the nearby shorelines.

The cafeteria addition was placed carefully to enable the existing kitchen space to serve the existing cafeteria and then switch over to serve the new cafeteria. The existing cafeteria was converted to specialty classroom space. The existing media center became the new central office, situated strategically to monitor and control the building's new main entrance. Additional remodeling projects included a completely remade gymnasium, new science labs, technology updates in every classroom and new furnishings throughout the school.











Florida Atlantic University, Chartwells Food Court
Boca Raton, Florida



Gallo Architects & Development Consultants, Inc.

Associated firm: JWR Construction Services, Inc.

Client:
Florida Atlantic University; Stacy Volnick, Food Service Operations Manager

Area of project entry category:
19,000 sq. ft.

Cost of project entry category:
$3,507,736

Cost/square foot of project entry category:
$184.62

Completion:
August 2007

Photographer:
Myro Rosky



Florida Atlantic University's previous food court had students traveling off-campus for meals and was in need of a renovation. To increase student retention, the architect created a new dining concept that attracts students to eat, study and socialize on campus.

A circulation pattern and end-use requirement study showed a need for perceptual boundaries without static partitions. To accomplish this, a fused color palette of durable flooring, including porcelanato tile and stained concrete, was installed to help delineate areas. Painted clouds, open structures, hard ceilings and 4-foot by 4-foot ceiling tiles were added to facilitate traffic flow. Technical aspects of the space became part of the design concept with exposed ventilation and air-conditioning ducts. Dining concepts were showcased by visible food-preparation areas, lighting, unified wall colors and logos.

Seating design, materials and colors were integral to the vision from the onset. Indoor seating included booths, rectangular and freeform tables, high-back and standard chairs, and counter seating. Outdoor dining incorporated epoxy textured flooring, vinyl-coated seating, suspended stainless-steel lighting and oscillating fans.





Hamilton Elementary School
Hamilton, Missouri







River Bluff Architects, Inc.

Client:
Hamilton R-II School District; Lana Crawford, Principal

Area of project entry category:
4,165 sq. ft.

Cost of project entry category:
$541,450

Cost/square foot of project entry category:
$130

Total area:	Total cost:	Total cost/square foot:
54,000 sq. ft.	$6,831,235	$126

Completion:	Photographer:
March 2009	Sally Wurtzler



In small rural districts such as Hamilton R-II, the school cafeteria can serve as not only a place to eat, but also an important place for community groups to meet after hours. Therefore, the new elementary school needed to be well-suited for hungry kids, as well as a good space for activities of all kinds.

The space is designed with bright colors and a dynamic soffit element that creates a stage proscenium and snakes down the hallway to form a soffit overhanging the cafeteria entry. The large space features exposed ductwork and ceilings, and a south-facing expanse of glass, which gives a feeling of a "sun porch" area for cafe tables. A view of the burnished block wall, an element that runs throughout the school, is available from all vantage points. Colorful accent tiles in the wall feature the school colors and encourage movement down the hall.

The space also is open to the gymnasium through a two-way stage that may be used from both the commons and the gymnasium. The school can have a formal school program from the gymnasium, or an impromptu presentation during an after-hours meeting in the cafeteria.

Slippery Rock University, Boozel Dining Hall

Slippery Rock, Pennsylvania



STV

Client:
Slippery Rock University; Debra Pincek, Assistant to the Vice President for Student Life Administration

Area of project entry category:
28,000 sq. ft.

Cost of project entry category:
$6 million

Cost/square foot of project entry category:
$214.29

Completion:
January 2009

Photographer:
Halkin Architectural Photography



Before



The architect facilitated the renovation and addition of Boozel Dining Hall at Slippery Rock University. The administration had requested the original structure be demolished to make room for a new facility. After some detailed investigation, the architect discovered that more than $2 million could be saved by refurbishing the original structure. It was a transformation from an outdated food-distribution center to a state-of-the-art dining hall complete with a Brazilian churrasco grill for a centerpiece.

Because the building was more than 30 years old with outdated appliances and outmoded mechanical, electrical and plumbing systems, the administration recognized that the entire structure needed to be gutted. The design added a 3,000-square-foot lobby with glass atrium to house a "grab-and-go" concept and queuing area. The majority of the interior of the existing facility was renovated.

The newly renovated facility features eight food stations with open kitchens, new furniture and booth seating for more than 600 people. The dining areas were transformed with new finishes and lighting, and the existing server was reconfigured to include a more open layout of food stations. Bright colors, such as red and copper, were incorporated into Boozel's redesign.

Other new amenities include high-top bar tables with stools and diner-style countertops, along with electrical outlets for laptops and other devices.





University of Houston System—Sugar Land, Academic Building with Wharton County Junior College · *Sugar Land, Texas*



Archi•Technics/3, Inc.

Associated firm: PageSoutherlandPage

Client:
University of Houston System at Sugar Land and Wharton County Junior College; Richard D. Phillips, Associate Vice President

Total area:
150,000 sq. ft.

Total cost:
$30.3 million

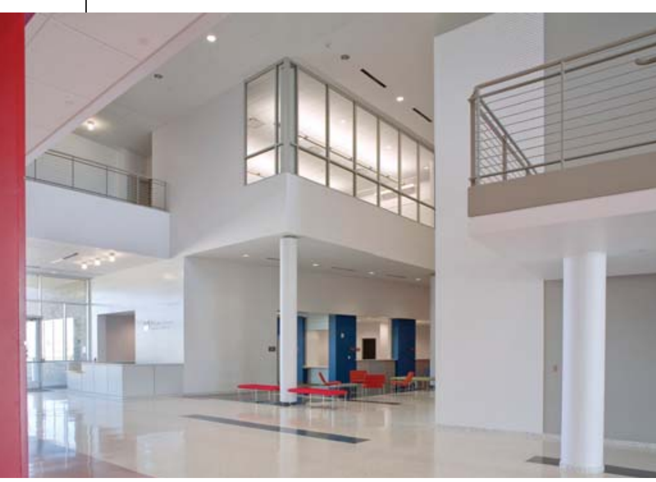
Total cost/square foot:
$202

Completion:
March 2009

Photographer:
Richard Payne









The University of Houston System at Sugar Land partnered with Wharton County Junior College (WCJC) to design and construct a 150,000-square-foot academic building that will serve the educational needs of each institution. The $30 million facility includes 39 classrooms, nine science labs, a 157-seat auditorium, computer labs, a nursing suite shared by both institutions and exercise facilities.

The design team stacked similar functions on the upper floors and created "suites" of science labs, classrooms and faculty offices to increase efficiency and assist in wayfinding for students and faculty.

Special consideration was given to the mechanical systems. Three air-cooled chillers serving air handlers deliver conditioned air to fan powered variable-air-volume boxes. The building includes many energy-saving features, including energy-recovery outdoor air units that recover 80 percent of the energy contained in the exhaust air; a variable flow, primary chilled-water flow and variable-air-volume zoning system. The laboratories use state-of-the-art air-control devices to protect occupants from harmful substances.

Carson-Newman College, Ted Russell Hall

Jefferson City, Tennessee







BarberMcMurry architects

Client:
Carson-Newman College; Randall O'Brien, President

Total area:
30,720 sq. ft.

Total cost:
$8,197,000

Total cost/square foot:
$266.83

Completion:
March 2009

Photographer:
Peter Montanti



Ted Russell Hall was designed to satisfy programming functions that support international-business education and family-business education for this 158-year-old, Baptist-affiliated, liberal-arts college. The design needed to embrace advanced instructional-delivery technology and flexibility to adapt to changing curriculum over the life of the structure. At the same time, Ted Russell Hall had to respect the college's traditional design context and reinforce its system of values-based education.

The solution was a 30,720-square-foot facility of brick and Indiana limestone with copper roofing. Rooted in the campus' traditional design aesthetic, the project includes well-placed contemporary elements to help communicate a modern, global business educational mission. The two-story facility offers 12 classrooms and two tiered teaching theaters, conference space, and offices for the business faculty and administration.

The Center for Family Business is situated near the tiered classrooms on the first floor. It serves area family businesses and entrepreneurs. The plaza adjacent to the main entrance serves as a gathering place for Ted Russell Hall and adjacent buildings. A newly completed pedestrian boulevard displaces vehicular traffic to the perimeter and brings the campus a more walkable scale.

Paradise Elementary School
Paradise, Pennsylvania



EI Associates

Client:
Pequea Valley School District;
John Bowden, Business Administrator

Area of project entry category:
1,145 sq. ft.

Total area:
91,335 sq. ft.

Total cost:
$17,673,718.92 (total construction)

Total cost/square foot:
$195.05

Completion:
December 2008

Photographer:
Nathan Cox



The new Paradise Elementary School is expected to be the first elementary school in Lancaster County, Pa., to achieve LEED gold certification. The design of the building took into account several environmental and economic considerations; the predominant one was improving the core learning spaces and reducing energy. The design maximizes the daylight flowing into the interior spaces. The classrooms are stimulating and productive environments for children to learn, with furniture and cabinetry that optimize the storage space.

The building has colorful graphics and banners that reinforce the building's sustainable principles.

The entire school is designed to maximize efficiency by serving the district's new and expanded educational program needs, as well as providing a space for community after-school activities.







The Chapin School, Addition and Alterations
New York, New York



Marner Architecture

Client:
The Chapin School; Thomas Palermo, Director of Facilities

Area of project entry category:
32,000 sq. ft.

Cost of project entry category:
$22 million

Cost/square foot of project entry category:
$690

Total area:
66,000 sq. ft.

Total cost:
$35 million

Total cost/square foot:
$530

Completion:
August 2008

Photographers:
Trevor Tondro Photography; Marner Architecture (exterior)







The 24,000-square-foot expansion to the Chapin School brings life to its strategic goal to support the excellent education that it provides with the finest and most up-to-date resources. This 100-year-old K-12 independent school for girls had outgrown its space because of program expansion, not enrollment increase.

The addition includes a new science center, a new middle school and new visual-arts center, each with a strong sense of place and identity. Faculty space is added for departmental offices and division offices to strengthen the sense of community in each of these areas and in the other divisions of the school.

All new classrooms are designed to be adaptable to potential future methods of teaching and learning. In all teaching spaces, services, storage and independent study workspace are situated on the perimeter or ceiling. Furniture, including art and lab tables, is movable.

Sustainability is integral to the design. The most readily discernable effect is that classrooms are flooded with glare-free natural light, which is harvested to reduce the electrical demand.

Roy Martin Middle School Replacement
Las Vegas, Nevada





Pugsley. Simpson. Coulter. Architects

Client:
Clark County School District; Walt Rulffes, Superintendent

Area of project entry category:
92,398 sq. ft.

Cost of project entry category:
$25,850,000

Cost/square foot of project entry category:
$279

Total area:
167,219 sq. ft.

Total cost:
$47 million

Total cost/square foot:
$281

Completion:
August 2008

Photographer:
Janae Shields





Roy Martin Middle School replaces the original, parts of which fell victim to arson in 2004. The challenge was to build a multi-level school and include programmed functions on a 10-acre site. The previous facility was in a one-story building on 20 acres.

The central courtyard is the driving force of the two-story concept; all school functions revolve around this courtyard. Separation of buildings allows unique architectural identities for each primary school function (i.e. commons, gym, administration). This design creates necessary distances between buildings for daylighting. The buildings evolved, creating the most beneficial passive daylighting design strategy. Daylighting occurs in two ways: classrooms on the second floor have direct light via roof monitors and windows. Classrooms on the first floor receive daylight via light shafts penetrating between classrooms on the second floor to rooms on the first. Daylighting decreases the artificial lighting required to illuminate interior spaces, decreasing heat load and energy costs caused by artificial lights. Classrooms receive enough daylight throughout the year, requiring artificial lighting 30 percent of the time.

Sam Houston State University, College of Humanities and Social Sciences Building · *Huntsville, Texas*



WHR Architects, Inc.

Client:
Sam Houston State University; John McCroskey, Assistant Director for Facilities & Construction

Cost of project entry category:
$24,680,000

Total area:
148,000 sq. ft.

Total cost:
$30 million

Total cost/square foot:
$203

Completion:
December 2008



The College of Humanities and Social Sciences (CHSS) Building is situated on a sloped site in the center of campus. It is adjacent to the newly created campus mall and houses a diverse group of students, faculty and administrative staff, including the dean of CHSS, the psychology, sociology and political science departments, general-use lecture halls, classrooms and the university's Student Advising and Mentoring Center.

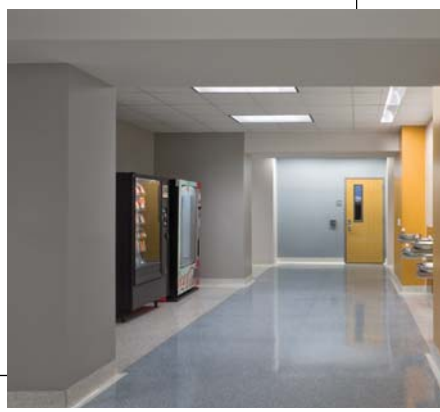
Key goals for the university included adding new classroom space to promote innovative programming, provide distance learning and accommodate varied class sizes. The university wanted the building to have a strong and sensitive connection to the campus mall on the north and the wooded park on the east, while encouraging interaction among students and faculty.

The design provided larger student spaces placed on the building's lower levels to ease student traffic. The naturally sloping site enabled a solution that placed large classrooms and lecture halls on different levels on the site with at-grade entries possible for each. Views to the campus mall and wooded park were featured by placing informal gathering spaces and a three-story lobby stair at key vantage points. Additionally, informal meeting spaces throughout the building give students and faculty places to interact along their natural travel path.









Conant High School
Hoffman Estates, Illinois







ARCON Associates, Inc.

Client:
Township High School District 211; Nancy Robb, Superintendent

Area of project entry category:
88,700 sq. ft.

Cost of project entry category:
$15,592,000

Cost/square foot of project entry category:
$176

Completion:
August 2008



Curriculum demands and increased student enrollment created the need for major additions and remodeling work at this northwest suburban district. The study resulted in an expansion plan of Conant High School.

A new music suite was constructed at the southeast corner of the building and includes a band ensemble room, a chorus ensemble room, practice rooms, storage rooms and a music library. The former music suite, situated partly on the basement level of the building, was inaccessible to persons with disabilities. Demolition of the existing music suite made way for the construction of a new, state-of-the-art science department with 15 new science labs of all disciplines, prep rooms, storage rooms and a new science department office.

The main feature of the building is a two-story lobby/student assembly area containing a "green building technologies"-themed exhibit displaying various LEED components of the building, including photovoltaic energy collection for supplemental electricity, solar thermal collection for supplemental domestic water heating, a green roof design for water management, a wind turbine for supplemental electricity, and a geothermal heating system using the Earth's constant core temperature as a heating and cooling source.

Osseo Adult Education Center
Brooklyn Center, Minnesota



ATS&R Planners/Architects/ Engineers

Associated firm: Clark Engineering

Client:
Osseo Area Schools; Susan Hintz, Superintendent

Total area:
25,500 sq. ft.

Total cost:
$3,942,946

Total cost/square foot:
$155

Completion:
February 2006

Photographer:
Rick Peters/InsideOut Studios

The Osseo Adult Education Center promotes GED achievement through academic and English-language instruction to adult learners in the northwestern suburbs of the Twin Cities. Working with Osseo Area Schools and the Adult Education Center staff, the architect designed the 25,500-square-foot facility to meet the needs of these adult learners. It planned for an expansion that provides human services as a "one-stop" service center.

Great care was given in creating clear and safe traffic patterns at the Osseo Adult Education Center. With adult learners arriving by various modes of transportation, the center offers welcoming dropoff areas and entries for pedestrians, bus riders and drivers.

The use of daylight, warm colors and patterns on the floors and walls make the center feel welcoming. The facility houses 14 classrooms, a large community room, two computer labs, two shared conference rooms, a lunch room with partitioning capabilities, and a teacher-prep area and staff lounge. The center serves as home to 1,300 adult students and 40 Osseo Area Schools' staff.









Conway Elementary School
Orlando, Florida



BRPH Architects-Engineers, Inc.

Client:
Orange County Public Schools; Karen Babb, Principal

Area of project entry category:
1,286 sq. ft.

Cost of project entry category:
$190,000

Cost/square foot of project entry category:
$148

Total area:	Total cost:	Total cost/square foot:
86,334 sq. ft.	$15,545,121	$180

Completion:	Photographers:
October 2007	Jesse W. Kunerth; Fran Pickett

Conway Elementary School replaces a 55-year-old "finger" school with a two-story building incorporating 34 classrooms, a media center, art room, technology lab, music room, administrative offices, entry lobby and dining multipurpose space.

The school's most prominent feature is the lobby rotunda with two sets of double glass doors complemented by two stories of windows, natural wood ceilings and richly colored tile floors. This sunny, welcoming space set with rich, earthy colors provides a beautiful and calming transition from the environmental elements outside to the learning environment inside.

The rotunda doubles as a showcase for student artwork or an informal setting for concerts, luncheons, receptions and community gatherings. The octagonal shape serves as a secure and convenient access hub, providing the flexibility to restrict entry to student and administrative areas while allowing after-hours use of the lobby rotunda, cafetorium and media center for community and school-related functions.

The new school was constructed on the same site as the original school, which maintained full operation through construction. Neither class schedules nor extra-curricular activities were disrupted during the process.









Penta Career Center
Perrysburg, Ohio



Collaborative - TMP

Client:
Penta Joint Vocational School District; Fred Susor, Superintendent

Area of project entry category:
28,000 sq. ft.

Cost of project entry category:
$4,190,120

Cost/square foot of project entry category:
$150

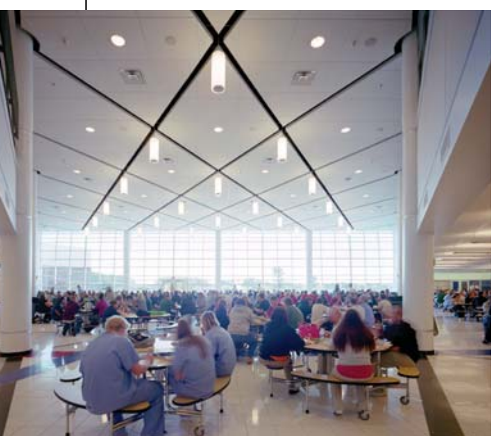
Total area:
521,639 sq. ft.

Total cost:
$91,022,596

Total cost/square foot:
$175

Completion:
September 2008

Photographer:
Christopher Lark









Penta serves 16 surrounding school districts and educates 2,000 students from five counties. The design features a "center core" area surrounded by three wings. This three-story glass-walled core is the focal point of the new facility, and includes a student commons area, a welcome center, 600-seat auditorium, multipurpose room, culinary-arts program, academic classrooms and a media center. The unique building design provides for flexible space that can adapt easily to changes and expansion of career-technical programs.

Providing opportunities for collaboration and interaction, the building includes social zones for all students, an easily accessible commons area and an overall "family" atmosphere—students come from 16 different districts, and therefore lack a sense of unity. Commons areas (media center, dining commons and welcome center) respond to this need.

Interior materials include painted concrete masonry units, which provide the durability required because of the function of spaces. The dining commons and entry areas include recycled porcelain/glass tile flooring, and vinyl composition tile or carpet cover other areas. Manufacturing and construction trades areas feature sealed concrete floors.

Spring Grove Area High School
Spring Grove, Pennsylvania



Crabtree, Rohrbaugh & Associates

Client:
Spring Grove Area School District;
David L. Stricker, Superintendent (retired)

Area of project entry category:
11,435 sq. ft.

Cost of project entry category:
$1,500,272

Cost/square foot of project entry category:
$131.20

Total area:	**Total cost:**
333,810 sq. ft.	$49,820,044

Total cost/square foot:
$149.25

Completion:	**Photographer:**
July 2008	Alan Wycheck

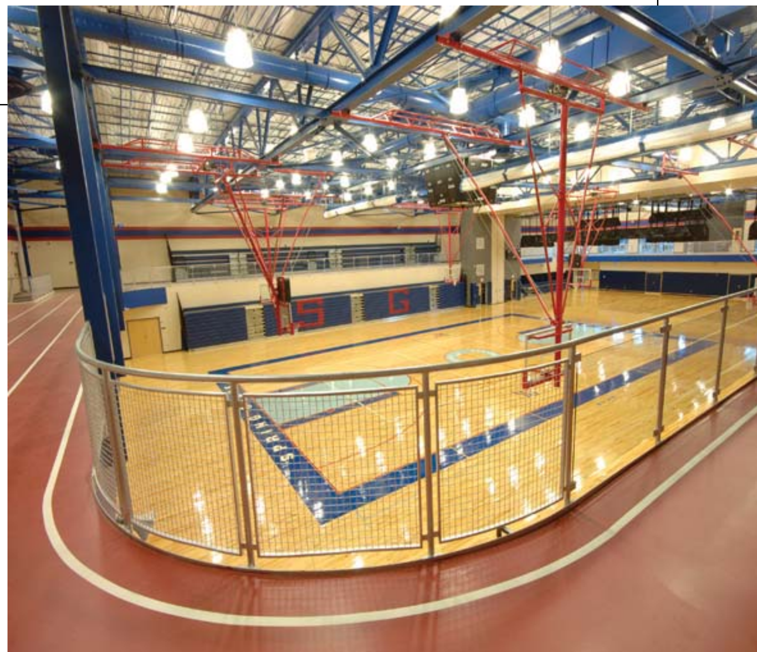
One of the priorities of the Spring Grove Area High School program was to create a seamless integration between the academic core spaces of the building and spaces for public use. The commons area not only achieved this integration through relationships with adjacent spaces and use of materials and finishes, but also provided students and faculty an area to exchange information and ideas.

Centrally situated, the commons area provides access to many key components of the building, including the administration guidance area, natatorium, gymnasium, school store, auditorium and cafeteria on the first floor. A pair of open stairways with integrated benches provides access to the second-floor bridge above, where the library, gymnasium track, TV studio and pool mezzanine all are accessible. The width of the space increases as visitors progress from the front entry, allowing more room for functions involving the cafeteria and auditorium.

Fully conditioned through rooftop units, the commons area is a two-story skylighted space designed for maximum natural light, with views to the front and rear main entries, as well as a central courtyard off the cafeteria. Varying materials and finishes such as terrazzo flooring, ground-face concrete block, aluminum, painted drywall, wood and stained concrete clearly identify key entry points and functions off the commons area, and are unified throughout the entire space by dark red brick. Specialty light fixtures mounted to painted steel columns, as well as the placement of the school district's logo in front of the school store, add to the personal touches throughout the space.



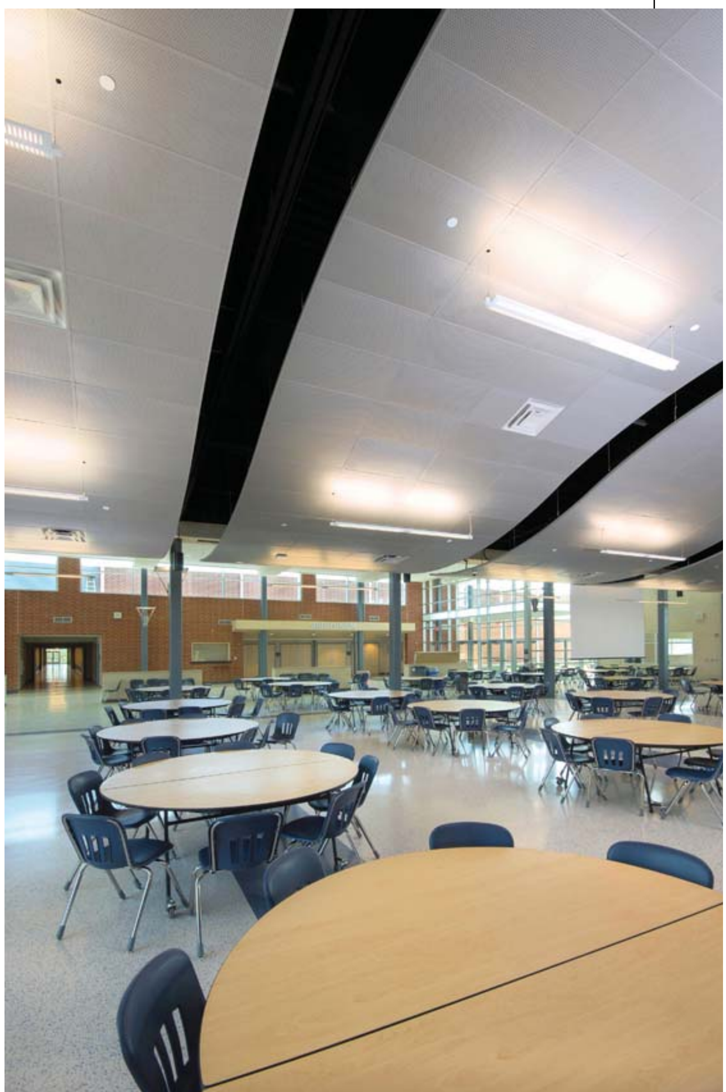


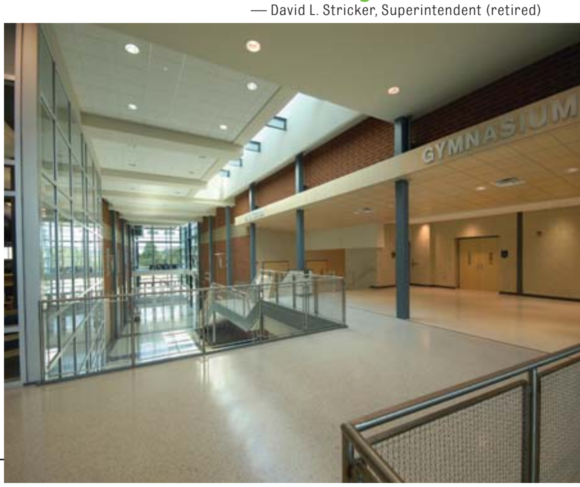




"We're very pleased an expert panel has recognized the excellence of the overall design and construction of the high school. It's so nice to have affirmation that the commons space and the entire building is functional, educationally sound and aesthetic pleasing for the staff, students and the community."

— David L. Stricker, Superintendent (retired)





South Central College—Faribault Campus, Lower-Level Renovation · *Faribault, Minnesota*



I&S Group, Inc.

Client:
South Central College; Keith Stover, President

Area of project entry category:
6,082 sq. ft.

Cost of project entry category:
$164,900

Cost/square foot of project entry category:
$27.11

Completion:
October 2008

Photographer:
Andrew Breck

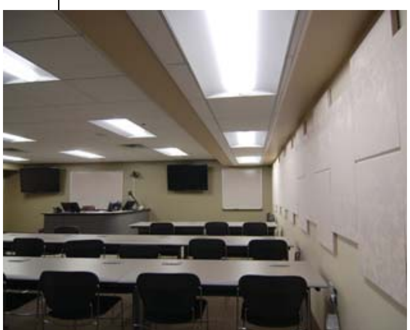
With the help of the architect, South Central College undertook an interior remodeling project that re-energized existing office and classroom space and the adjoining corridor, transforming a minimally used basement area into a sought-after student workspace.

The plan was to lay out the office and classroom space in a more functional arrangement that better facilitated the work to be done in each space. New technologies, including interactive television components, were integrated for evolving technology requirements, and the need to maintain a flexible and functional space for varied areas.

Perhaps the most noteworthy part of the remodel transformed a simple corridor into an inviting student lounge and high-tech study space. The interior redesign of the area focused on the needs and comfort of students and staff using the space.

The selected lighting is conducive to studying and was chosen specifically to produce a well-lighted, yet calming atmosphere, creating the perfect pre-exam studying location. Additional lighting along the corridor was selected for its ability to simulate "daylight," providing a higher level of user comfort not previously available in this basement-level location.

The variety of high-top tables and comfortable couches appeals to groups and individuals, and new sustainable finishes throughout create a functional, timeless look that is safe for users and the environment.



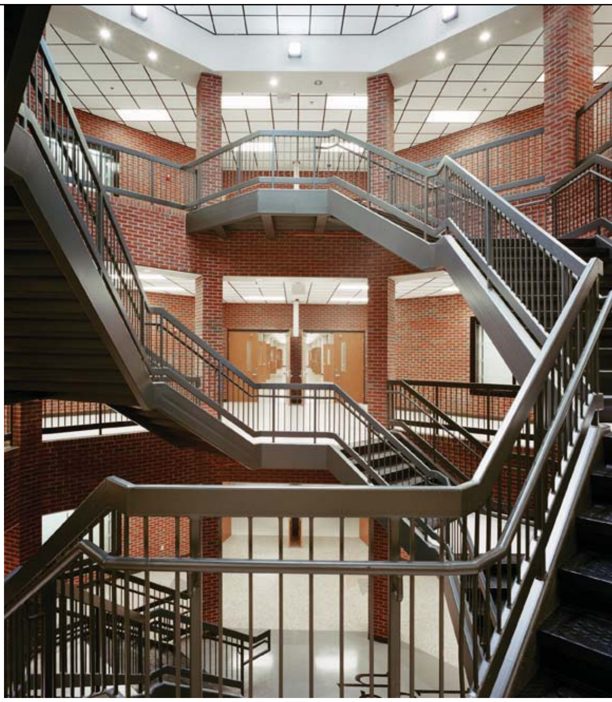




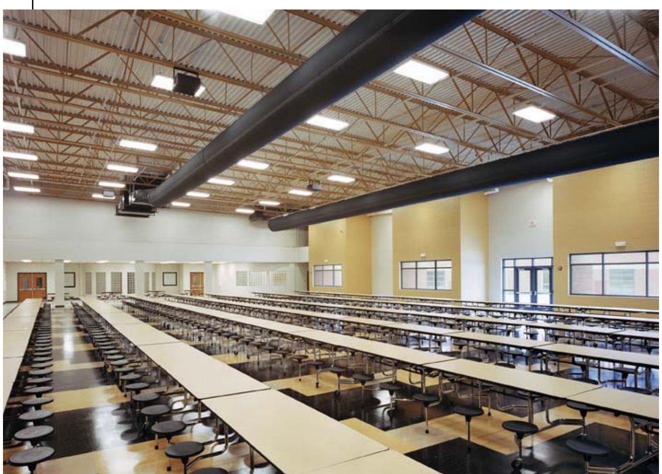


Mount Juliet High School

Mount Juliet, Tennessee









Kaatz, Binkley, Jones & Morris Architects, Inc.

Client:
Wilson County Board of Education; Mickey Hall, Supervisor of Finance

Area of project entry category:
84,795 sq. ft.

Cost of project entry category:
$13,235,572

Cost/square foot of project entry category:
$156.09

Total area:	Total cost:	Total cost/square foot:
315,000 sq. ft.	$36,443,493	$115.69

Completion:	Photographer:
June 2008	Aerial Innovations

Mount Juliet High School was designed for a 9-12 grade structure and a core capacity of 2,000 students. The program requirements resulted in a 315,000-square-foot building. Constraints of the long, narrow 55-acre site dictated a three-story design situated in conjunction with athletic fields including a football stadium, softball and baseball stadiums, a combination football/band practice field with running track, and soccer field.

An enclosed 88-foot by 220-foot commons area situated between the academic portion of the building and the athletic/career technical portion of the building has a rubber floor system striped in five-yard increments. This area provides space for a multitude of functions, including a student/after-hours entry into the facility; a football/band practice area; ROTC drill area; flag team/dance team practice area; and lobby for the 2,000-seat gymnasium and 1,000-seat auditorium.

Four serving lines provide fast, efficient service for the cafeteria that seats 686 students. The 7,500-square-foot media center includes two computer labs.

Raymond B. Cooper Junior High School
Wylie, Texas



PBK

Client:
Wylie Independent School District; H. John Fuller, Superintendent

Area of project entry category:
1,344 sq. ft.

Cost of project entry category:
$178,684

Cost/square foot of project entry category:
$132.95

Total area:
104,045 sq. ft.

Total cost:
$16,035,931

Total cost/square foot:
$154.12

Completion:
June 2006

Photographer:
Jud Haggard

Cooper Junior High School was designed to maximize efficiency while optimizing flexibility through creative use of space. The reflection of colors and the allure of an oval-shaped rotunda greet students, and the "Main Street" design simplifies faculty supervision and streamlines student movement.

Instructional technology reinforces classroom instruction with six computers in each classroom, as well as fully equipped computer labs and enhanced computer capabilities in specialized areas.

Lighting is direct and indirect to provide the greatest flexibility and quality of light at levels as required for each environment. Diffused natural light washes through the corridors from the clerestory revealing colorful, yet refined floor patterns and ceramic tile wall finishes. A calm and inviting learning environment is reflected as students pass the library with its expanse of glass, varying learning areas and soft color scheme. Cooper Junior High School offers a functional and inviting environment conducive to learning.







Hamilton Elementary School
Hamilton, Missouri



River Bluff Architects, Inc.

Client:
Hamilton R-II School District; Lana Crawford, Principal

Area of project entry category:
2,378 sq. ft

Cost of project entry category:
$299,628

Cost/square foot of project entry category: $126

Total area: 54,000 sq. ft.

Total cost: $6,831,235

Total cost/square foot: $126

Completion: March 2009

Photographer:
Sally Wurtzler

When the Hamilton R-II School District began contemplating a new elementary school, it wanted to think about learning on all scales. Hoping to incorporate the latest in learning concepts, it wanted commons spaces where educational interaction could occur within a number of different areas in the school, big and small.

The district decided on a pod concept, with three distinct pods being tied together by the school's defining feature—a gently curving burnished-block wall that runs the length of the school. Glazed block accents are interlaced into the wall construction, providing long "dashes" of color traveling down the halls.

Each pod is distinguished by its own accent color, and this color is best featured in each pod's light-filled common space. These spaces are situated centrally in the groupings of six to eight classrooms, providing an opportunity for children of similar grade levels to interact outside their individual classrooms in the daylighted space.

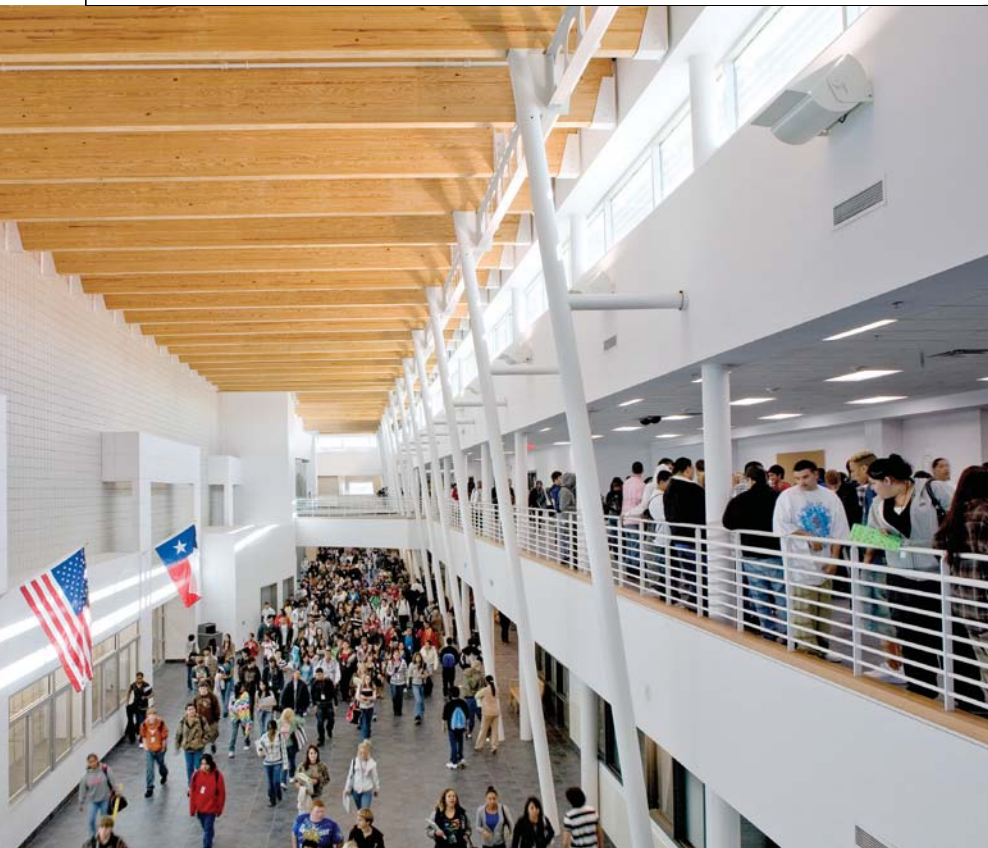
Students can move easily from classroom to pod commons to the school's larger gathering areas (cafe space, media center), depending on the scale of interaction needed during the school day. Colors in the hallway also are set up on a wayfinding system, so that a young student has no trouble navigating his or her way.







Goose Creek Memorial High School
Baytown, Texas



SHW Group LLP

Client:
Goose Creek Consolidated Independent School District; Al Richard, Principal

Area of project entry category:
15,000 sq. ft.

Cost of project entry category:
$2,218,650

Cost/square foot of project entry category:
$147.91

Total area:
374,220 sq. ft.

Total cost:
$55,350,124

Total cost/square foot:
$147.91

Completion:
June 2008

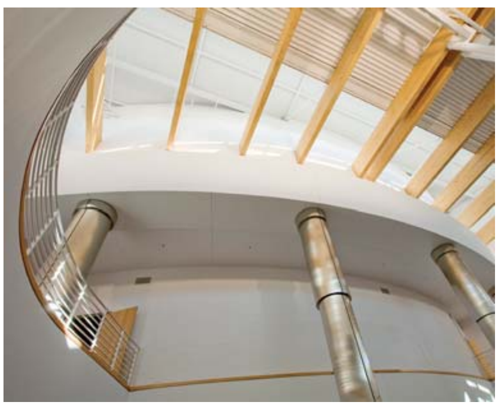
Photographers:
Richard Payne; Luis Ayala

The common areas of Goose Creek Memorial High School are spectacular for two simple reasons: their breadth and brilliance. Although the learning centers within this facility were designed to be intimate, autonomous and grade-specific environments, the common areas promote a much larger and all-inclusive feeling of community.

The school and library entryways, along with the lobbies for the gymnasium and auditorium, bleed into the student circulation areas giving the vast space dual-purpose potential. By placing the common and assembly areas close to each other, the resulting space supports freedom of movement during high-traffic periods and provides additional room for featured events hosted in the adjacent facilities.

The interior materials were selected to fulfill a low-maintenance objective. The stark white walls are crisp and clean in appearance, and the simple color palette offers two other benefits: The paint selection ensures that long-term upkeep is uncomplicated and inexpensive, and the highly reflective color utilizes and accentuates the abundance of natural light that pours into the building.







Michigan State University in Dubai
Dubai, United Arab Emirates







SHW Group

Client:
Michigan State University; Brendan Mullan, Director

Area of project entry category:
9,650 sq. ft.

Total area:
32,700 sq. ft.

Completion:
August 2008

Photographer:
Martin Pfeiffer Photography



The architect was selected to design and engineer a 32,000-square-foot education facility for Michigan State University (MSU) in Dubai, making it the first American university in the Dubai International Academic City. This new facility includes MSU's construction management, family and community services, communication arts (TISM), and computer engineering programs.

The concept is predicated on the diverse cultures coming together and interacting in an MSU environment. With this interaction, a social energy is created that ripples throughout the surrounding learning environments, further reinforcing the discovery of the students who will be attending the four university programs. The "origin" is rooted in the center of the building, weaving the social, academic and cultural aspects of the students. Through the use of materials and a dynamic vocabulary, the concept is apparent to all who visit and function in the facility. Student attraction and student retention were large drivers in the development of the concept.

Lewis & Clark Interpretive Center, Betty Strong Encounter Center · *Sioux City, Iowa*



Cannon Moss Brygger & Associates

Client:
Missouri River Historical Development, Inc.; Marcia Poole, Executive Director

Area of project entry category:
10,093 sq. ft.

Cost of project entry category:
$2,968,872

Cost/square foot of project entry category:
$294.15

Completion:
December 2007

Photographer:
Paul Brokering

The Betty Strong Encounter Center is the second facility developed by Missouri River Historical Development. It is a unique, but complementary building physically connected to the previously completed Lewis & Clark Interpretive Center. The facility is designed to accommodate a variety of activities that depict different encounters of life in Siouxland. The gallery houses changing photography exhibitions, and a 115-seat auditorium provides a comfortable place for lectures, programs and documentaries. The center's lobby has additional activity space for special events. A covered pathway, "The Connection," links the two buildings and provides a transition from the days of the Lewis & Clark expedition to modern life in Siouxland.







Peter Cooper Village/Stuyvesant Town, Oval Kids
New York, New York





CetraRuddy

Client:
Tishman Speyer Properties;
Erik Rose, Senior Director

Area of project entry category:
1,750 sq. ft.

Cost of project entry category:
$1,321,250

Cost/square foot of project entry category:
$755

Total area:
7,000 sq. ft.

Total cost:
$10 million

Total cost/square foot:
$1,428

Completion:
July 2008

Photographer:
Alan Schindler

The architect created a unique recreational and educational amenity space called "Oval Kids" at Peter Cooper Village/Stuyvesant Town.

The innovative exterior at Oval Kids uses a crystalline glass enclosure to create an indoor-outdoor educational and play environment for preschool-aged children during all seasons of the year.

Playful glass-art elements articulate the floor-to-ceiling glass exterior panels. A bluestone terrace with outdoor seating creates a podium on which the glass form sits. The glass form is a refined modern aesthetic that enhances the pedestrian experience surrounded by lush gardens.

On the inside, Oval Kids has wide expanses of open space to allow for flexible activity use. More private areas, such as a screening area, storytelling area, kitchen and changing area, are tucked to the sides.

The ceiling and flooring of bright colors enliven the room, and are accented by colorful and durable activity spaces where children can enjoy art and craft projects. The flooring was fabricated from an environmentally sustainable, multi-colored recycled rubber material.

Furniture selections are lively and sculptural to add to a vibrant and enriching playful experience. A visually exciting cubby area is accentuated by black vinyl walls that can be written on and personalized.

In order to reduce the noise levels for the residents above, extra insulation and soundproofing were used. Existing structural columns and plumbing systems were disguised within unique and innovative design details that incorporated the colorful schemes in this attractive play space.

Handcrafted and thoughtful details inspire and surround this educational and engaging atmosphere. All are welcome at Oval Kids to explore and create something wonderful.







"Thanks to the architect's creative design, we are able to offer the youngest residents of New York's Stuyvesant Town a bright, playful and fun environment that stimulates their minds and imaginations."
—George Hatzmann, Managing Director, Tishman Speyer



Concordia College, Donald A. Krenz Academic Center
Bronxville, New York









Peter Gisolfi Associates

Client:
Concordia College; Viji George, President; Eloise Morgan, Assistant to the President

Area of project entry category:
12,000 sq. ft.

Cost of project entry category:
$3.5 million

Cost/square foot of project entry category:
$292

Completion: August 2006

Photographers: Norman McGrath; Robert Mintzes (exterior)



The Donald A. Krenz Academic Center occupies the third floor of Concordia College's Scheele Library. Built in 1972, the library has first and second floors of 12,000 square feet, but the third floor was only 4,000 square feet. To create the center, the floor plate was fully expanded to accommodate:

•The OSilas Art Gallery: showcasing works by artists from the college and the wider community. The north-facing glass facade is transparent so that activity within is visible from the college campus. The linear space along the north displays smaller works of art; larger pieces are mounted in the spacious interior.

•The Yeager Room: the conference room for the Board of Regents. This formal wood-paneled room also houses a unique collection of letters and memorabilia of significant American business leaders.

•The Pietruski Auditorium: a terraced lecture room, with concentric rows of seating. It supports the use of a variety of media, and accommodates laptop use.

•A digital classroom for computer instruction.

Additional renovated spaces in the original section of the third floor include a classroom, television studio and administrative offices.

San Antonio College, Nursing and Allied Health Complex
San Antonio, Texas



O'Connell Robertson

Client:
Alamo Community Colleges; Robert E. Zeigler, President

Area of project entry category:
120,000 sq. ft.

Cost of project entry category:
$23.5 million

Cost/square foot of project entry category:
$195.83

Completion:
Fall 2008

Photographer:
Chris Cooper Photography

The shortage of registered nurses in Texas exceeds 20,000. To support this critical workforce need, Alamo Community Colleges (ACC) in San Antonio has expanded courses and degree plans to educate nurses and healthcare workers. The new Nursing and Allied Health Complex at ACC's San Antonio College provides state-of-the-art clinical environments and teaching labs to support this growing program. The facility will enable the college to double its enrollment within three years from 500 to an estimated 1,000 students.

The 120,000-square-foot facility includes a public clinic, as well as classrooms and clinical labs that emulate real-world healthcare environments.

The facility supports programs for dental technician and assistant, medical assistant, EMT, medical transcription and RN nursing. Skill labs, exam rooms, nursing simulator labs, critical-care labs, LDR rooms, a pediatric lab, open nurse stations and an ambulance bay module include SimMan technology, beds and equipment used in today's hospitals. The complex design and engineering provides full hospital simulation tied to video recording and monitoring for teacher supervision and instruction.

The facility features flexible, presentation-ready classrooms, open-area student lounges and administrative offices. Sustainable building strategies include solar shading devices; extensive natural light and daylighting controls; regional and recycled construction materials; and water-efficient landscaping.







Indiana University South Bend, Administration Building Remodel

South Bend, Indiana



Architecture Design Group, Inc.

Client:
The Trustees of Indiana University; Una Mae Reck, Chancellor

Area of project entry category:
28,727 sq. ft. (this phase)

Cost of project entry category:
$2,313,650 (this phase)

Cost/square foot of project entry category:
$80.54

Total area:
79,160 sq. ft.

Total cost:
$7 million (estimate)

Completion:
December 2008

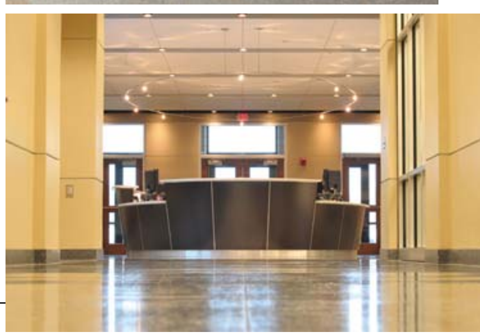
Photographers:
Matt Cashore; ADG (before)



Before







The administration of Indiana University South Bend occupies a former corporate headquarters building, originally designed in the 1960s for CEOs and typing pools. Spaces within the building were large but difficult to use, with a few large offices and lots of redundant circulation space. Most of the interior finishes were from the 1960s, including worn wool carpets, dated leather and fabric-covered doors, and distressed pecky cypress wood paneling.

Directed by the chancellor to eliminate the inefficiencies and dated appearance of the building, the architect analyzed the building and created a master plan for phased improvements. Initial work included upgrading the major public spaces in the building, improving the chancellor's boardroom and meeting rooms, and creating a unified department for the College of Business and Economics.

The design used a composition of standard building materials to update and unify the building's appearance. A limited palette of glass, aluminum, terrazzo and wood subtly reveals the hierarchy of spaces within the building. Salvaged and refinished, the pecky cypress paneling accents significant points within the building, including doorways to major departments, the public lobby before the chancellor's boardroom, and along and over the main staircase. Careful use of standard ceiling grid, tiles and light fixtures emphasizes the main routes through the building, pointing to lobby areas on each floor. Storefront windows provide higher visibility to public areas of the building, and coordinate with a new glass and steel guardrail along the main stair.

Webb School of Knoxville, International Center

Knoxville, Tennessee









Before



BarberMcMurry architects

Client:
Webb School of Knoxville; Scott Hutchinson, Headmaster

Area of project entry category:
23,524 sq. ft.

Cost of project entry category:
$3,953,000

Cost/square foot of project entry category:
$168.04

Completion:
August 2008

Photographer:
David Massengill



The growing importance of international education—culture, language and arts—prompted Webb School of Knoxville, a private K-12 institution, to include a freestanding International Center in the school's comprehensive master plan.

Key objectives of the design effort were to relocate roads from the campus center to the perimeter, add a pedestrian-friendly green space and gathering space, and establish a formal commons area with an amphitheater, fountain, clock tower and outdoor recreation as a focal point for daily campus life. The north end of the commons is anchored by the new Clayton Science Building.

The International Center is a renovation of the former art building. Programming includes 12 classrooms for various language, culture and art curricula, as well as an informal, two-story gathering space for students. Daylight is a central element in the building. A commercial-scale kitchen is included to enable instruction of students in the preparation of regional cuisine as a part of the international experience. Art facilities with a kiln room and darkroom also are included for instruction in international art and culture.

University of Houston, Writing Center Renovations
Houston, Texas



Basic Industries, Inc.

Client:
University of Houston, College of Liberal Arts and Social Sciences; Dave Irvin, Associate Vice Chancellor/Associate Vice President, Plant Operations

Area of project entry category:
2,056 sq. ft.

Cost of project entry category:
$68,465

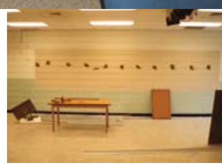
Cost/square foot of project entry category:
$33.30

Total area:
5,244 sq. ft.

Completion:
August 2007

Photographers:
Cydney Rax; Long Nguyen (before)





Before

The University of Houston Writing Center, situated on the second floor of Agnes Arnold Hall, moved to its current location in 2001 after the previous site suffered extensive damage from Tropical Storm Allison. In its 2007 renovation, two rooms were added and one existing room was remodeled to better serve the increased number of students, faculty and staff that use the center's services. The Writing Center maintains numerous programs to provide five basic services: writing in the disciplines partnerships, developmental English courses, English as a Second Language instruction, faculty support and writing consultations via peer tutors.

The Writing Center's activities required that the renovations enable one room to accommodate up to 50 persons, with the other two rooms serving smaller groups. In keeping with the room-to-room connection and multipurpose design of the existing space, a large expanse of interior glass windows and two glass doors were included in the renovated rooms, as well as multipurpose furnishings and wiring for computer networking to accommodate large-group lectures, smaller seminar classes, cluster areas for tutoring and office space.





DC Prep/Nia Community Public Charter School, Benning Charter School Renovation · *Washington, D.C.*



Cooper Carry

Associated firm: MCN Build, Contractor for Design-Build Renovation

Client:
Building Hope; Wuhan Dansby, Interim Executive Director, Nia Community Public Charter School; David Leahy, COO, DC Prep

Area of project entry category:	Cost of project entry category:
70,000 sq. ft.	$2.9 million
Cost/square foot of project entry category:	**Completion:**
$41	September 2008

Photographers:
Maxwell MacKenzie; Cooper Carry (before)

With only 40 days and a rundown school building, the designers transformed a 1970s-era "school without walls" building into an inspirational learning environment for two fledgling charter schools in a neglected neighborhood of Washington, D.C.

From the cavernous spaces of the 70,000-square-foot facility, designers gutted the space and created classrooms, a library, reception area and administrative spaces for each school.

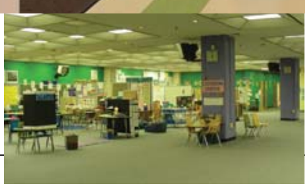
This entire project was designed and constructed within a 40-day window during summer 2008. The owner, Building Hope, and the design team met at the beginning of this fast-track project for a whirlwind charrette.

The team worked closely to meet the $2.9 million budget, which included a complete roof replacement. Designers used inexpensive materials such as gypsum board for the structural forms, and vinyl tile for a vibrant floor pattern that minimizes the corridors' visual length. The corridor walls are angled to form unexpected spaces.

Whimsical cutouts in the library walls echo round ceiling discs above. Bright accent colors in turquoise, tangerine and kiwi green highlight these circular shapes in the walls. The team innovatively used clerestory windows and full-height sidelights to mask the absence of daylight in the windowless building.







Before



The University of Akron, The Polsky Building: Summit College, Food Court and Atrium Renovation · *Akron, Ohio*



Originally opened in the 1930s as one of downtown Akron's major department stores, the Polsky Building was acquired by the University of Akron in 1987 during the tenure of university president William Muse. Several years later, after a major interior renovation, the building was reopened as a classroom facility. After 10 years, the building needed some improvements. In 2005, with university president Luis Proenza's $300 million "New Landscape for Learning" initiative, renovations to the Polsky Building for the University of Akron's Summit College began.

The renovation focused on the following:

•Creating a newly enhanced entrance to help establish the identity for Summit College.

•Increasing public seating areas, while improving the building's interior aesthetics and character of public spaces. This meant redesigning the existing nondescript atrium by removing half-height walls that blocked the views and designing custom decorative railings to enhance the expression of the six-story atrium. The combination of the new metal railings and the introduction of 17 finish colors that take cues from the building's Art Deco exterior help enliven the space.

•The increased space on the third floor improves wayfinding and spatial comprehension of the existing third-floor departments.

•The rework of the food-service area includes a newly designed cafe-style food court area; incorporated a new Starbucks store; established a functional layout for the university's document reproduction center; relocated University Police Station security offices; integrated a Zip Card (student identification card) station; renovated the existing Barnes & Noble bookstore; and unified these public spaces within the six-level building.

Because the Polsky Building is one of the largest academic buildings in Ohio (more than 5,000 people visit the building daily) and the remotest point on campus, the remodel of this building expressed the university's commitment to providing a welcoming environment for students.

Creo Design, Inc.

Associated firm: Schumacher Designs

Client:
Ted Curtis, AIA, NCARB, Vice President for Capital Planning and Facilities Management

Area of project entry category:
41,500 sq. ft.

Cost of project entry category:
$1,989,000

Cost/square foot of project entry category:
$47.92

Completion:
November 2006

Photographer:
Media Arts Group Inc.

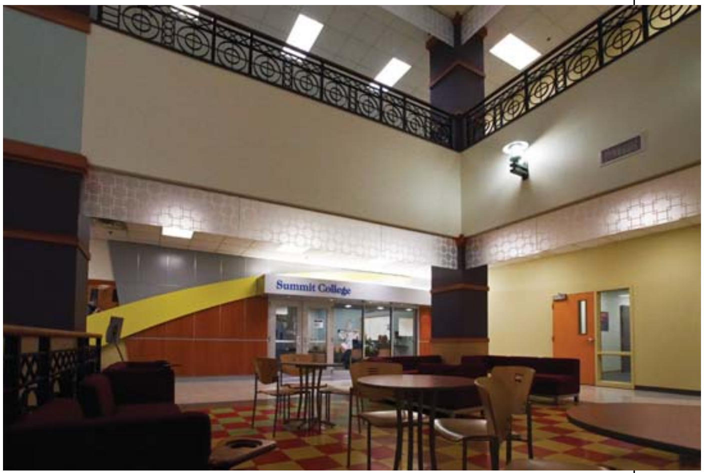








Before







The University of Akron, Schrank Hall North Renovation
Akron, Ohio



Creo Design, Inc.

Associated firm: Schumacher Designs

Client:
Ted Curtis, AIA, NCARB, Vice President for Capital Planning and Facilities Management

Area of project entry category:
13,865 sq. ft.

Cost of project entry category:
$1,034,000

Cost/square foot of project entry category:
$74.57

Completion: October 2007

Photographer: Media Arts Group Inc.


Before



Schrank Hall North, on the campus of The University of Akron, needed renovation. Included in the scope of work was upgrading the restrooms, ADA compliance, fixture counts and hazardous remediation.

The relocation of computer-based testing and the Department of Women's Studies was essential to enable the building they were housed in to be razed. The renovation allowed the university to expand in preparation for future growth, as well as resolve issues of access control and student circulation. The Department of Adult Focus, faculty senate and the area health-education center also were relocated in Schrank Hall North. Moving these departments affected existing space utilization and required the relocation of Schrank Hall North's existing departments.

This renovation resolved the three major problems identified by the project team: First, it upgraded the existing restrooms for ADA accessibility while maintaining occupancy; second, it created an identity for the new Computer-Based Testing and Assessment Center, as well as Women's Studies; third, it relocated the new and existing departments to maximize building use.







INTERIOR RENOVATION

Brown University, J. Walter Wilson Building

Providence, Rhode Island



Lerner | Ladds + Bartels, Inc.

Client:
Brown University; Stephen Maiorisi, Vice President Facilities Management

Area of project entry category:
62,200 sq. ft.

Cost of project entry category:
$18.7 million

Cost/square foot of project entry category:
$300

Completion:
December 2008

Photographer:
Warren Jagger Photography



Before



The J. Walter Wilson Laboratory at Brown University, dedicated on October 5, 1962, was a much-needed addition to the campus. Supplying more than 40,000 square feet of research and instructional space (and an extra 10,000 square feet in 1983 with the Sol Koffler wing), the building supplemented Brown's existing science facilities. Unfortunately, the constant use of the facilities had worn the structure down, and the combination of required university-wide utility work and a new life-sciences building brought about the closing of the facility.

Returning the noteworthy structure to full and improved functionality, this time as a student-services center with mailroom facilities, required a multi-faceted approach. Highlighted goals for revival of the laboratory included the improvement of building legibility and sense of place, activation of the streetscape to draw in students, and unification of the main building and addition with a nearby affiliated structure, the neo-Georgian styled Faunce House.

Most notable of the improvements to this venerable structure is the new 670-foot glass entry tower, opening up the previously darkened corridors and creating well-lighted, inviting spaces. The finished building houses 11 disparate university departments, including student mail services, the psychology department and more.





University of California—Irvine, Paul Merage School of Business Tenant Improvements: The Center for Real Estate and Masters of Business Administration Executive Commons

Irvine, California



HMC Architects

Client:
UC Irvine's Paul Merage School of Business;
John Clarke, Assistant Dean

Area of project entry category:
3,800 sq. ft.

Cost of project entry category:
$1.1 million

Cost/square foot of project entry category:
$289.47

Completion:
January 2008

Photographers:
Claudia Ambriz/HMC Architects;
Dave Fennema/HMC Architects





Before

UC Irvine's Paul Merage School of Business tenant improvements uniquely integrate the specific needs and aesthetic sensibilities of two distinct client groups, The Center for Real Estate and the Masters of Business Administration's Executive Commons. These dynamic new facilities celebrate a progressive office environment through a balance of distinguished and flexible multi-use spaces.

Significant planning and design imperatives included the challenge to equally embrace both clients' desires and essential program requirements within very limited spatial parameters. In response, the available area was completely transformed and redefined by a thorough attention to design detail.

The design for The Center for Real Estate features a central, flow-through entry/circulation space shaped by movement patterns effectively integrating the large central conference room with high-tech resource library functions and perimeter workspaces. Transparent architectural elements are situated strategically throughout to create visual connections and enable light sharing among various use areas. Together, these features encourage a highly efficient and collaborative workspace for faculty, students and business leaders. Clean lines frame the subtle tones and textures of sophisticated, yet simple materials. The composition and palette energize the space and create a unique, cutting-edge university educational environment.

The Masters of Business Administrations' Executive Commons design is characterized by flexibility and material warmth that facilitate and invite diverse events. Layered surfaces and textures articulate and enrich the open plan of the multi-venue space. Accommodating furniture layouts for everything from small conferences to nearly a hundred at formal dining tables, the facility has a catering kitchen, a food-service area screened by an operable partition, a storage area and sophisticated hide-away audio/video systems.

Required exterior improvements were executed respectfully to accommodate new entry passageways and standalone mechanical systems. The integration of interior and exterior enhancements respects the existing building vernacular, while providing distinctive spaces for the business school.







Before







Rochester Institute of Technology, Administrative Services Building and Innovation Center · *Rochester, New York*



Chaintreuil | Jensen | Stark Architects, LLP

Client:
Welliver McGuire Inc.; James H. Watters, Senior Vice President of Finance and Administration

Total area:
53,032 sq. ft.

Total cost:
$12 million

Total cost/square foot:
$226

Completion:
May 2009

Photographer:
Don Cochran Photography

The Administrative Services Building and Innovation Center at the Rochester Institute of Technology (RIT) was scheduled for completion May 2009.

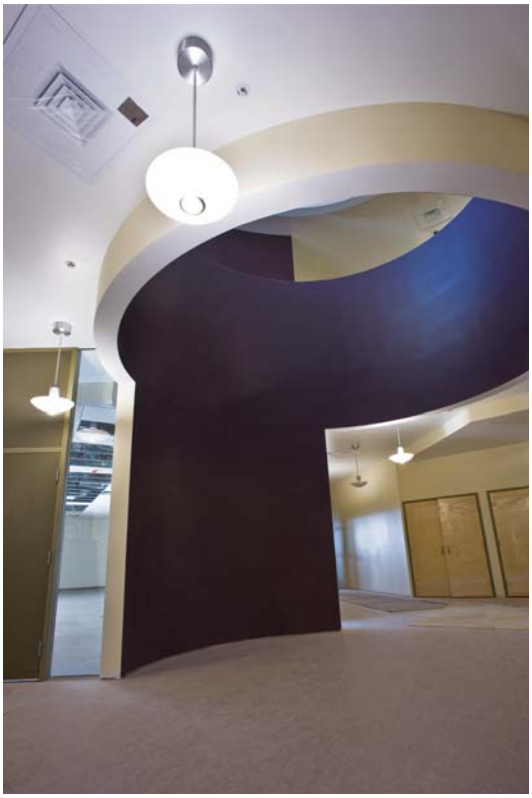
The 10,000-square-foot Innovation Center is intended to be a "one-stop shop" incubator to foster multi-disciplinary work groups as well as individual research teams and, above all, be the center for RIT to showcase the latest research and technology. Floor-to-ceiling windows provide panoramic and inspiring views of the campus from inside the space. Passersby and new students have the opportunity to see firsthand the projects and activities that RIT faculty and students are working on.

At the Administrative Services Building, "we are bringing everything together in one place and revolutionizing our service delivery model for students," says James H. Watters, senior vice president of finance and administration.

The 4,000-square-foot student-services lobby provides students with an integrated location for handling business related to finances, scheduling, parking and housing. Several other RIT administrative departments will be situated in the balance of the building, which totals 53,000 square feet.

This project is registered with the United States Green Building Council (USGBC) and is in pursuit of LEED platinum. The design embraced LEED-NC strategies to construct a sustainable and energy-efficient building. Some creative solutions include techniques in insulation and weatherproofing, white roofing to limit heat gain, large expanses of glass to allow for daylight infiltration and exterior views to building occupants, and an enhanced monitoring of building systems. This was done while still complementing the campus' adjacent surroundings.







State University of New York at New Paltz, Renovation of Old Main · *New Paltz, New York*



Hall Partnership Architects, LLP

Client:
State University Construction Fund; John M. Shupe, Director of Facilities Design and Construction

Cost of project entry category:
$20,000

Total area:
87,254 sq. ft.

Total cost:
$20.5 million

Total cost/square foot:
$240

Completion:
June 2010

Built in 1908, Old Main is a historically significant building at State University of New York (SUNY) New Paltz serving the campus School of Education. Because of the facility's age, condition and technological constraints, most spaces, building systems and infrastructure are aging, deteriorated and under capacity. Small-scale renovations have been attempted throughout the years, resulting in an assemblage of old and new that has distorted any unifying building character that remains.

The project aims to address:

•Efficient building utilization.

•Evolving needs of the School of Education.

•Creation of a unifying signature emblem of what Old Main symbolizes to the campus.

The design intends to recreate the formal appearance that defines the building's historical character. It also intends to create a main focal point by providing a central lobby area and entrance. The concept of grouping related departments and spaces together enhances effective use. By adapting the old track area for use, two new floor additions in the south wing fulfill the desire for building flexibility and adaptability.

The project is USGBC-registered and pursuing LEED certification. The project is in line to receive a LEED silver rating because the design met higher energy-efficiency standards than proposed originally. All interior finishes were selected carefully, and the construction process was managed with maximum LEED credits in mind.



Before







Hamilton Elementary School

Hamilton, Missouri



River Bluff Architects, Inc.

Client:
Hamilton R-II School District; Lana Crawford, Principal

Area of project entry category:
1,644 sq. ft.

Cost of project entry category:
$210,432

Cost/square foot of project entry category:
$128

Total area:
54,000 sq. ft.

Total cost:
$6,831,235

Total cost/square foot:
$126

Completion:
March 2009

Photographer:
Sally Wurtzler





The media center at Hamilton R-II Elementary School dispels the notion that a library space should be just a run-of-the-mill home for books.

The goal was to create an interesting space that fed into the school's overall "Main Street" concept. The media center itself is an open, airy space, with views out to the rural landscape beyond. Its strong connection to the main corridor emphasizes the connection to the Main Street. This feeling of openness is attributable to the fact that the space is actually just an extension of the corridor, separated from it only by a partial-height decorative glass wall. The patterned wall features alternating panels of clear and reeded glass in a rectilinear pattern.

While standing in the library space itself, one can see views of the colorful accent blocks of the burnished block wall beyond "blur out" as they pass behind the reeded sections of the glass wall. This layering of pattern creates an interesting effect as one moves around in the space, providing a separation from the hallway, yet encouraging a constant connection with it.





Hillcrest Senior High School
Springfield, Missouri











Bond Wolfe Architects

Associated firm: Casey Architects

Client:
Springfield Public Schools; Scott Wendt, Director of Capital Construction

Area of project entry category:
25,000 sq. ft.

Cost of project entry category:
$5 million

Cost/square foot of project entry category:
$200

Completion: **September 2008**

Photographer: **John Odom**

The architect provided design services for Hillcrest Senior High School in the Springfield Public School District. The addition to this high school includes a new 25,000-square-foot science technology wing with 10 new classrooms for chemistry, biology, physics and general science. The stairwells and corridors of the new addition are seen as equally important support elements for the laboratory classrooms in the building. Information technology commitments with interactive whiteboard technology and wireless computer support were incorporated into several of the science laboratories.

Sustainable-design concepts were integrated into many aspects of the building, including a naturally lighted central atrium, daylighting in the classrooms, erosion control during construction and low-VOC paint.

Robert Morris College—Chicago Campus, Pharmacy Technology Laboratory · *Chicago, Illinois*



Phelan Associates, Inc. Architects

Associated firms: S. Stein & Company, Interiors/Furniture; W.E. O'Neil, General Contractor

Client:
Robert Morris College; Ron Arnold, Vice President for Business Affairs

Area of project entry category:
1,000 sq. ft.

Cost of project entry category:
$200,000

Cost/square foot of project entry category:
$200

Completion:
June 2008

Photographers:
McShane Fleming Studios; Phelan Associates, Inc.









Seeking to fill the rising need for pharmacy technicians, Robert Morris College (RMC) School of Nursing & Health Studies established an associate's degree in pharmacy technology. The challenge in this project was to create a unique, high-tech teaching environment while responding to the restraints of a tight, existing footprint within the Leiter II Building, a National Historic Landmark on Chicago's famous State Street.

The design creates a clean, modern laboratory that replicates a general dispensing pharmacy space as well as a compounding hospital pharmacy. Elements include a public transaction space, IV prep clean room, drug dispensing stations, compounding drug workstations and electronic drug counting stations with internal bar-code scanning. Student station surfaces and lighting were designed to not only provide visual acuity of medications, but also elicit a sense of the "neighborhood drug store" through the use of fluted glass partitions and internal lighting. To contrast the white, sterile pharmacy, the learning environment was accented with soft colors in the flooring, walls and casework, punctuated with intense primary colors at the drug storage wall.

In addition to the instructional aspect of the project, the design also needed to succeed in marketing the pharmacy program. All areas of the lab are visible through glass partitions. Accent lighting highlights aspects of the space when not in use.

Hillside Elementary School
New Richmond, Wisconsin









ATS&R Planners/Architects/ Engineers

Associated firm: Clark Engineering

Client:
School District of New Richmond; Morrie Veilleux, Superintendent

Total area:	Total cost:
85,510 sq. ft.	$13,606,099
Total cost/square foot:	**Completion:**
$159.12	August 2008

Photographer:
Rick Peters/InsideOut Studios

Designed for green construction, Hillside Elementary School incorporates many features and elements that lead to sustainability in design. To ensure the new school would have a small environmental footprint, the architect and the School District of New Richmond worked together to set and evaluate energy-performance goals.

Downstream wetlands were protected during construction. Temporary holding basins were built to capture runoff, and a "treatment train" provided clean water runoff. Integral colored concrete floor slabs were ground and highly polished to serve as finish flooring in the classrooms and corridors. These durable, low-maintenance surfaces require minimal use of cleaning agents.

Water-saving features were installed, including low-flow water-saver faucets and dual-level flush-valve toilets.

To minimize energy consumption, automated lighting, occupancy sensors, variable-air-volume systems and daylighting strategies were incorporated throughout the facility. The building is expected to use 47 percent less energy and produce 47 percent fewer carbon emissions than an average building of similar type.

Sustainable qualities, timeless design and efficiency make Hillside Elementary School a source of community pride.

Century College, Science and Library Building
White Bear Lake, Minnesota



DLR Group

Client:
Century College; John O'Brien, Acting President

Total area:
73,930 sq. ft.

Total cost:
$17,397,521

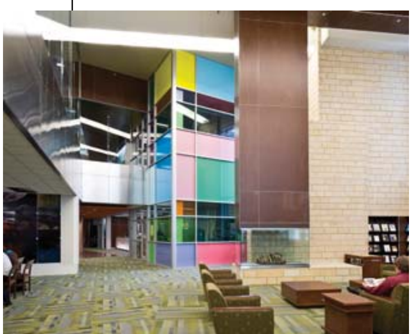
Total cost/square foot:
$235

Completion:
April 2008

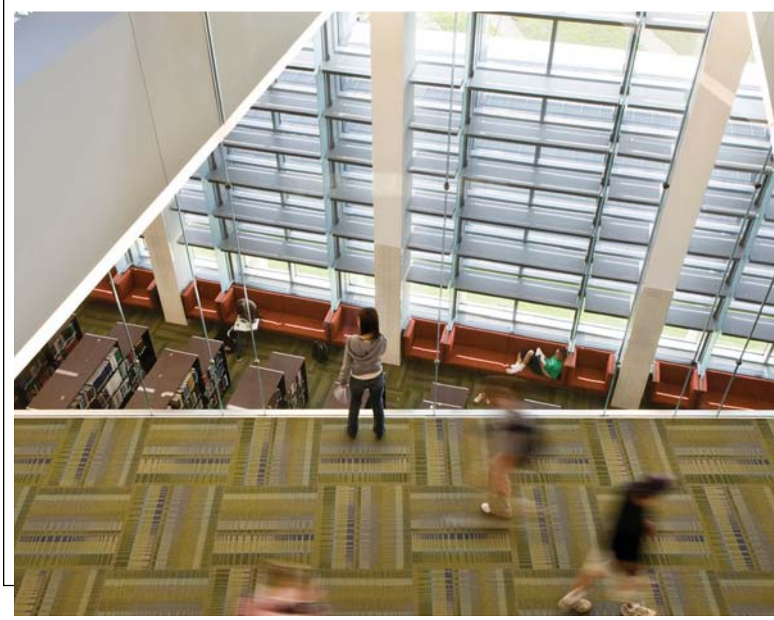
Photographer:
Don Wong

The new mantra for Century College is "learning-centered community," and the Science and Library Building embodies this mission. The first new campus structure in 17 years, the Science and Library Building was designed to be a hub for academic and community engagement. Built-in window seats, a fireplace, coffee shop and alumni hall combine to create a relaxed and welcoming environment for students and faculty to lounge, study or quietly socialize.

The Science and Library Building was situated strategically at the end of a skybridge that joins the East and West campuses. The result is increased foot traffic through social learning areas that encourage student, faculty and staff interaction. Housing 5,000 lineal feet of bookshelves, nine science labs and five science classrooms, the new building combines the West and East Campus libraries, and consolidates science instructional areas into one central location. The building is built to exceed state energy-efficiency standards by 30 percent and features a glass southern elevation that electronically shades to reduce the need for air conditioning in the summer.









Minnesota State University—Mankato, Memorial Library
Mankato, Minnesota



I&S Group, Inc.

Client:
Minnesota State University—Mankato; Joan Roca, Dean of Library Services

Area of project entry category:
14,437 sq. ft. (renovated area)

Cost of project entry category:
$340,438

Cost/square foot of project entry category:
$23.58

Completion:
October 2008

Photographer:
Andrew Breck



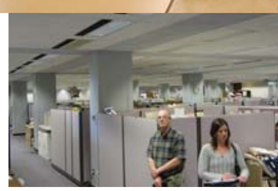
Because of the growth of Minnesota State University—Mankato (MSU), the architect assisted MSU with the renovation of Memorial Library to improve workflow and enhance staff interaction. This project reconfigured the 14,000-square-foot space so that it not only meets the current needs of the facility, but also integrates flexibility into the design to ensure the space will meet future needs.

The remodeled space improves the flow of materials through the working spaces of the library into the public areas. Included in the remodel were 16 new faculty and staff offices. Careful consideration was placed on window and door locations to maximize borrowed daylight from the limited amount of existing exterior windows around the perimeter. Also included in the plan were student rooms designed for today's technology and with the flexibility to integrate future technology. The center of the space was designed to promote workflow efficiencies and interdisciplinary communications.

Staff and student response to the remodeled space has been extremely positive. The workflow has been improved dramatically, and the design of the space and finishes within it enhance the experience of faculty, staff and students.







Before

Georgia State University, Library Transformation

Atlanta, Georgia





Leo A Daly

Client:
Georgia State University; Mark Becker, President

Total area:
238,000 sq. ft. (renovation/addition)

Total cost:
$23 million (renovation/addition)

Total cost/square foot:
$97

Completion:
November 2007

Photographer:
Visko Hatfield Photography

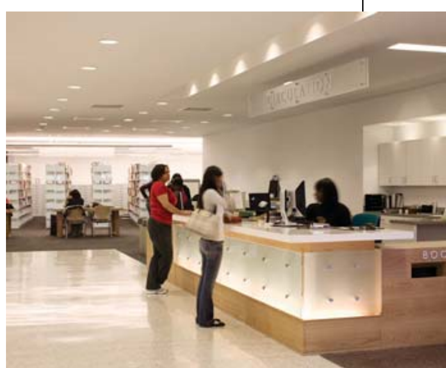
The design transformation of the Georgia State University library updates, unites and expands two existing structures. Spanning historic Decatur Street, a dramatic new four-story, glass-enclosed link connects the two buildings with collaborative and interactive study stations throughout.

The concept for the renovation revolved around four ideals: improving the library's image on campus; improving the clarity and simplicity of patron wayfinding; improving patron understanding of the facility and its services; and preparing the library for future growth.

The new facility is grouped around a vibrant, 150-seat "learning commons." This space features flexible seating and a variety of study alternatives, including custom-designed computer and reader tables, creating friendlier, more home-like spaces than traditional study areas. The fixed furnishings are timeless pieces, and the colors and carpet patterns act as reinforcements that direct wayfinding, providing cues to department locations.

The interior remodel features interiors that reflect the cultural diversity of the university's student body. Furniture selections address the needs of the urban student, who often uses the library more than eight hours a day.







Ohio Northern University, Hanson Reading Room

Ada, Ohio



Miller Lecky Architects Inc.

Client:
Ohio Northern University, Pettit College of Law; David C. Crago, Dean

Area of project entry category:
2,640 sq. ft.

Cost of project entry category:
$415,174

Cost/square foot of project entry category:
$157.26

Total area:
4,580 sq. ft.

Total cost:
$609,174

Total cost/square foot:
$133

Completion:
August 2008

Photographer:
Ken Colwell

The Hanson Reading Room project represents many things for the school: a traditional law library reading room; a special tribute for a beloved dean; a fully wired space for research and instruction; and an attractive and flexible setting for special events.

The formal reading room seats 54 and encourages students to study and socialize together, fostering a close-knit community as a hallmark of the university. Adjacent are two alcoves with overstuffed leather seating, accommodating casual groups of six. Behind elegant French doors are two seminar rooms for groups of 12.

All of the tables and chairs were handcrafted in cherry in the Mission style by Amish craftsmen. The custom bookcases, doors, interior windows and trim are finished in solid cherry wood.

Modern technology is used throughout, yet without visible high-tech features. Power and data outlets are situated in table aprons under the table tops. Video projectors and projection screens are concealed in ceilings. The wireless network is available everywhere.

The lighting system provides multi-level, flexible lighting ranging from five new skylights to dimmable pendant fixtures. Directional recessed lights highlight bookcases and study areas.

Finally, the new reading room was designed to be adaptable. The hard-wired tables unplug from floor outlets and can be rearranged for special events.









Northpoint Elementary School
Blaine, Minnesota



Wold Architects and Engineers

Client:
Independent School District 16; Don Helmstetter, Superintendent

Area of project entry category:
3,315 sq. ft.

Cost of project entry category:
$500,200 (structure and finishes)

Cost/square foot of project entry category:
$150.89

Total area:
88,072 sq. ft.

Total cost:
$13,289,000

Total cost/square foot:
$150.89

Completion:
June 2008

Photographer:
Ralph Berlovitz Photography



With the design of its first new school in more than 30 years, Spring Lake Park Schools, Independent School District #16 established a district design committee.

As the design took shape, the committee wanted to incorporate a media center as the heart of the school. Also, one of the primary design commitments developed by the committee stated that "the atmosphere will be friendly, welcoming, calm, warm and bright."

In the media center, as well as throughout the building, this was accomplished using a color palette inspired by primary colors and the use of natural light. Taking advantage of the southern windows, colored/tinted glass continue the warmth of colors into the heart of the school.

The media center is at the center of the building, so the classrooms are very close to the media center. This minimizes the time it takes students to get to the media center. The furniture selected for the media center reflects the warmth of the room and is sized for young students.





Springfield College, Fieldhouse and Wellness Center

Springfield, Massachusetts



DiLullo Associates, Inc.

Associated firm: The Interiors Group

Client:
Springfield College; David Hall, Recreation Director

Area of project entry category:
160,000 sq. ft.

Cost of project entry category:
$21.5 million

Cost/square foot of project entry category:
$134

Completion:
August 2008

Photographer:
Desroches Photography



This complex is designed to fit into and around existing buildings on a dense suburban campus. The new buildings form a connection between previously disconnected buildings.

The 90,000-square-foot fieldhouse has four multi-use courts and a 200-meter track, team locker rooms, concessions and public toilets for the adjacent football/soccer bleachers. The Wellness Center includes a 15,000-square-foot fitness center, five multi-use rooms, campus recreation offices, and faculty and staff offices. A separate Athletic Training/Exercise Science (ATES) wing provides new training rooms, offices and classrooms for the ATES faculty and program. Control is achieved by two staffed entrances that monitor access and circulation throughout the facilities. Once inside, students and faculty have full access to all portions of the complex through monitored corridors and spaces.

The complex is tied together and to the campus by the use of common colors and materials, but with a contemporary feel and increased use of natural light. All materials were selected either as special-use athletic surfaces or for their durability and function. Every functional space in the facility has natural light, and the fitness center has sweeping views of the main campus road and the river beyond. Outside views into the complex draw people in and give life to the complex and the campus.

The project was developed with few land options, and a low square-foot cost for top-quality space and materials. The facilities are the largest on campus with the most student use.





Brandon High School, Athletic Complex
Ortonville, Michigan



French Associates, Inc.

Client:
Brandon School District;
Lorraine McMahon, Superintendent

Area of project entry category:
224,354 sq. ft.

Cost of project entry category:
$7.8 million

Cost/square foot of project entry category:
$34.76

Total area:
269,854 sq. ft.

Total cost:
$24.5 million

Total cost/square foot:
$90.79

Completion:
August 2008

Photographer:
Steve Maylone/Maylone Photography

Brandon High School was an outdated rural facility in need of significant improvement. To supplement a successful athletic program, a significant portion of the facility renovations focused on the outdoor play fields.

The new activities complex includes a stadium with bleacher seating for 4,000 people, a press box, concession stand, ticket booth, restroom building, artificial-turf football field, synthetic running track, long-jump pit, high-jump area, pole-vault pad and shot-put field. The stadium also includes a new 2,800-square-foot locker room. A stunning iron gate, painted in Brandon Eagle Blue, ushers spectators into this expansive space.

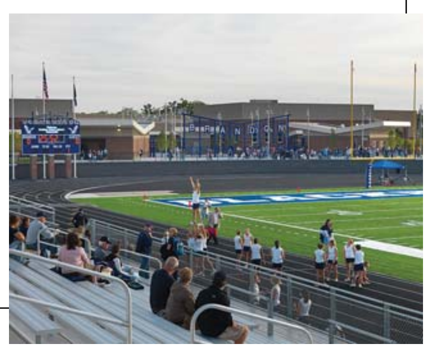
Interior renovations to the athletic facility include a 9,000-square-foot gymnasium addition with space for basketball, volleyball, wrestling and spectator bleachers. A 4,000-square-foot renovation to the existing weightroom also was completed during the interior renovations phase.











The Ohio State University, Recreation and Physical Activity Center · *Columbus, Ohio*



Moody • Nolan, Inc., Architect of Record

Associated firm: Antoine Predock Architect, Design Architect

Client:
The Ohio State University; J. Michael Dunn, Director

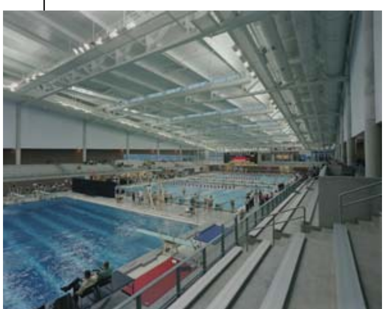
Area of project entry category:
569,456 sq. ft.

Cost of project entry category:
$117.6 million

Cost/square foot of project entry category:
$207

Completion:
January 2007

Photographers:
Brad Feinknopf/Feinknopf Photography; Tim Hursley







The collaborative partnerships formed by users of this facility have proved mutually beneficial. Athletics largely funded a 50-meter competition pool and diving pool that is shared by the recreation center and the academic unit. Activity spaces throughout the facility are used for recreation and education. Combining the programs enabled the design to include major public spaces that provide gathering places for all students.

A particular challenge was fitting this nearly four-block-long facility into the central campus location. This was done by breaking the building into four smaller elements, all interconnected below ground or by bridge. The education unit, with its need for unrestricted access, is connected to the remainder of the building by a bridge with its distinctive red glass wall and its own control point into the recreation center.

In addition to all the amenities that this building features, including state-of-the-art technology, it is relatively maintenance-free. The exterior is concrete, stainless steel and glass. On the inside, the public spaces are finished with durable materials: terrazzo floors; walls that are integral colored concrete block full-height; exposed acoustical deck for the ceilings; and concrete-encased columns.





Texas A&M University, McFerrin Athletic Center
College Station, Texas



O'Connell Robertson & Associates, Inc.

Associated firm: SpawGlass Construction

Client:
Texas A&M University;
Bill Byrne, Athletic Director

Total area:
191,076 sq. ft.

Total cost:
$31,645,052

Total cost/square foot:
$165.62

Completion:
December 2008

Photographer:
Chris Cooper



Texas A&M teamed up with the design team to create a venue that would propel the university to be among the leaders in today's major collegiate athletic arenas and reflect the athletic department's core values: "To provide student-athletes with all the necessary tools for them to be champions in their sport and life."

Initially, the facility was designed to be one building. The decision to break it apart came from a safety requirement. What was borne out of the split was a practice football facility with a regulation-sized football field in a high, unobstructed, weather-protected building and a separate competition track facility that can be transformed to provide climate-controlled space for an entire slate of Aggie sports.

Gilliam Indoor Track Stadium and the neighboring practice football facility are constructed with polyvinyl chloride (PVC) fabric, tensioned over 104 foot by $2\frac{7}{8}$-inch and 79-foot, 9 ½-inch steel frames. They are air-conditioned and insulated with thick R-30 insulation for the severe Texas heat and cold winters, and lined with a similar PVC fabric. Cast-stone accents reflect the unique architectural style of the neighboring Bright Football Complex.

The indoor track facility features a 120-foot clear span, one of the largest in the nation. It also features a six-lane, 200 meter, hydraulically banked track for high-speed running events. It includes a 225-foot by 15-foot, 4-inch by 16-foot concrete











pit for future installation of a retractable artificial-turf system. In 30 to 45 minutes, the facility can be converted from the track surface to a 100-yard synthetic turf field by way of a series of 18 air jets and a minimum of three people. The facility seats more than 4,100 and is furnished with two press boxes (one fully handicapped-accessible) as well as four full-service concession areas, restroom facilities, and storage and support facilities.

The architect also helped A&M determine a strategy and design the structure foundation in a corner of the stadium to be able to handle the weight of a portable 2,000-pound, high-definition jumbotron to aid the ribbon boards in the facility for competitive events.

The uniqueness of McFerrin Athletic Center is not necessarily in its size and accommodations, but in its multifunctional character. When not in use for Aggie football, the practice facility serves as a staging area for athlete warmup, as well as for catering and support staff prior to events. Its proximity to Kyle Field and Bright Football Complex and Academic Center allows it to serve as part of a one-stop-shopping sports district for athletes, a distinguishing element for Texas A&M. What has been created out of McFerrin Athletic Center, aside from a fan experience, is a recruiting tool for the university—a top-notch, one-of-a-kind facility for athletes.



South Central Service Cooperative, Educational Addition

North Mankato, Minnesota



I&S Group, Inc.

Client:
South Central Service Cooperative;
Ed Waltman, Superintendent

Area of project entry category:
8,000 sq. ft.

Cost of project entry category:
$1.4 million

Cost/square foot of project entry category:
$175

Total area:
20,223 sq. ft.

Total cost:
$3.6 million

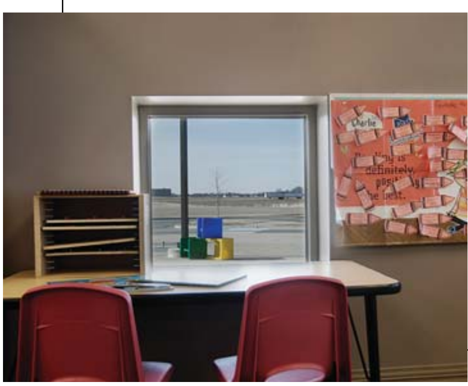
Total cost/square foot:
$178

Completion:
March 2008

Photographer:
Andrew Breck









The original design for the South Central Service Cooperative called for programmed space of 12,000 square feet, with two separate additions of 4,000 square feet each. The challenge to the design team was to place all 8,000 square feet of the Mankato Area Schools' required space on one side of the original building in such a manner that the facility would be seen as one homogenous design. The architect worked with Mankato Area Schools' personnel to ensure that the resulting design maximized the potential of the new space, while maintaining a fixed budget of $1.4 million for construction.

The new space was completed in spring of 2008, and includes functional and flexible classroom spaces for young children in addition to staff support spaces. A generous amount of daylight is intrinsic to the design to foster creativity and provide comfort to the students and their instructors. The organic nature of the floor plan is reflective of the original (SCSC) architectural design, and the exterior is a repetition of the architectural precast panels and elements.

Although the owner did not seek LEED certification for the project, the design does subscribe to the tenets of LEED by virtue of the building methodologies and materials employed in the design and construction. In this respect, it is considered a green project and will be held as an example of good stewardship.

Shawnee Early Childhood Center
Shawnee, Oklahoma





LWPB Architecture

Client:
Shawnee Public Schools; Marilyn Bradford, Superintendent

Area of project entry category:
54,810 sq. ft.

Cost of project entry category:
$6,256,000

Cost/square foot of project entry category:
$114

Completion:
April 2008

Photographer:
Joseph Mills

The classrooms at Shawnee Early Childhood Center are organized in clusters of four to five learning spaces surrounding colorful themed common areas. The common area themes include the Enchanted Forest, Wild West, zoo, Creation Station, forest animals and pond.

Integrated through the building is a "train track" that connects the themed areas and serves as a walking guide to the exuberant pre-kindergarten 3- and 4-year-olds at the center. The "train" and different destinations were the result of a brainstorming session with school staff and teachers.

The 54,810-square-foot center houses 22 classrooms, a kitchen, music room, physical-education room, dining space with stage and a courtyard. The physical-education room also serves as a tornado shelter. All the classrooms and corridors receive natural light.

The courtyard for active play and learning is an important feature of the center. It provides students additional learning opportunities by taking them outside the traditional classroom setting and into nature. A tricycle path allows active playtime.

The school was completed in spring 2008.





Suffolk University, 10 West Residence Hall
Boston, Massachusetts









CBT Architects

Client:
Suffolk University; David J. Sargent, President

Area of project entry category:
100,000 sq. ft.

Cost of project entry category:
$12 million (renovation)

Cost/square foot of project entry category:
$120

Completion:
January 2008

Photographer:
Chuck Choi

Suffolk University recently opened its newest residence hall, 10 West Residence Hall, situated in the heart of Downtown Crossing, one of Boston's most vibrant and diverse urban neighborhoods. The architect completed the renovation and rehabilitation of two early-20th-century buildings into student housing.

The 10 West Street buildings originally were being renovated as one-bedroom and studio condominiums, with retail on the ground floor. When the project was about 85 percent completed for condominiums, the architect was commissioned to renovate the buildings into a student residence to house 270 students. Working within the individual condominium floor plans, the fixed configurations were transformed with minimal demolition into singles, studios, suites, lofts and common lounges.

First- and second-floor spaces were converted into a central lobby with mail services, common student spaces and study rooms with an open floor plan and interconnected stair, which helps foster interaction in the building.

The 10 West Residence Hall project has received LEED gold certification by the U.S. Green Building Council—a distinction shared by just a handful of student residence halls in Massachusetts. Green building practices were integrated into the entire process, from programming to design to construction.

Nova Southeastern University, Rolling Hills Graduate Student Housing · *Davie, Florida*



Gallo Architects & Development Consultants, Inc.

Associated firm: JWR Construction Services, Inc.

Client:
Nova Southeastern University; John Santulli, Vice President of Facilities Management

Total area:
203,500 sq. ft.

Total cost:
$25,353,890 (includes general liability insurance, builders risk insurance, permit costs, overhead and profit)

Total cost/square foot:
$111.98

Completion:
August 2008

Photographer:
Myro Rosky



Rolling Hills Golf & Tennis Resort, featured as "Bushwood Country Club" in the movie "Caddyshack," was closed after suffering damage from Hurricane Wilma in October 2005. Nova Southeastern University (NSU) purchased the property and in 2007 began a major renovation, transforming the resort into modern housing for 373 graduate and doctoral students, and a stately conference center. The project was divided into two phases.

Work on buildings A and C began on Nov. 15, 2007, and required a nine-month construction schedule to accommodate students arriving for school on Aug. 1, 2008. When students arrived, they were greeted with a design reflecting the lifestyle of a modern student. The three- and seven-story residence halls feature contemporary, yet durable materials to create airy and open plans that take advantage of daylight and offer views of the adjacent resort.

Building B will include a conference center, a feature previously outsourced off-campus to accommodate large crowds. The facility was designed to reflect the grandiose, southern country-club tradition of the adjacent golf resort owned by NSU.





University of Missouri—Columbia; Hatch, Schurz, Bingham Complex Renovation · *Columbia, Missouri*



International Architects Atelier

Client:
University of Missouri—Columbia, Department of Residential Life; Harriett Green-Sappington, Associate Director

Area of project entry category:
236,500 sq. ft.

Cost of project entry category:
$31.1 million

Cost/square foot of project entry category:
$131

Completion:
May 2008

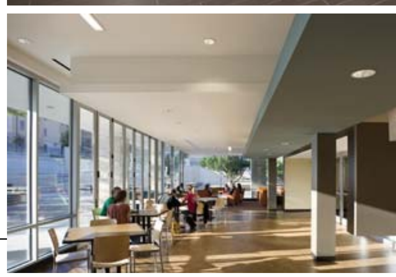
Photographer:
Assassi Productions

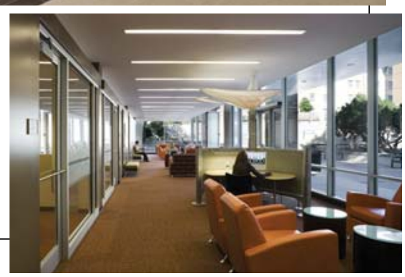
Hatch and Schurz Halls were prime examples of mid-century, high-rise residence halls that no longer met the requirements and expectations of their occupants. The architect worked with representatives from Residential Life and student groups to identify the deficiencies of the existing buildings and to establish goals for the renovation. The greatest priority was to provide bright, open spaces for student interaction; this goal was met by creating new openings in the exterior walls wherever possible to allow more natural light to flood into the spaces. The renovated halls accommodate 1,040 beds in traditional single and double units.

Connecting Hatch and Schurz Halls is the two-story Bingham Hall. The lower floor was renovated so that students from surrounding residence halls can enjoy the food provided by Campus Dining Services in a comfortable atmosphere. Students now have a series of defined spaces for socializing as well as quiet study. In addition, a commercial kitchen and other support facilities increase efficiency and meet the needs of students and staff.









Bloomsburg University, Lycoming Residence Hall Entrance Renovation · *Bloomsburg, Pennsylvania*







Robert A. Lack AIA Architecture & Design, Inc.

Client:
Bloomsburg University; David Soltz, President

Area of project entry category:
3,025 sq. ft.

Cost of project entry category:
$640,200

Cost/square foot of project entry category:
$211

Total area:
5,025 sq. ft.

Total cost:
$784,180

Total cost/square foot:
$156

Completion:
January 2009

Photographer:
Susan McGarry

The Lycoming Residence Hall entrance renovation was designed to create a more visible entry and provide new "community spaces" that are welcoming and inviting. The former lobby was accessed under a canopy that hid the door from campus. Once inside, the lounge was buried in the interior core with the support spaces, blocking all natural light and views.

The canopy was removed to provide a landscaped plaza area, and a second floor was added to mark the entry. The space created is a live/learn space, designed to be used for small group meetings or quiet study.

The lounge was designed to be an exciting, bright space that would be attractive to younger students. It is directly off the elevator lobby and provides students a place with air conditioning in the warmer months. The student director's office, storage and mailboxes are in the interior core, so the lounge has a view to the street. The reception desk is designed to have a direct view of the door for access control.



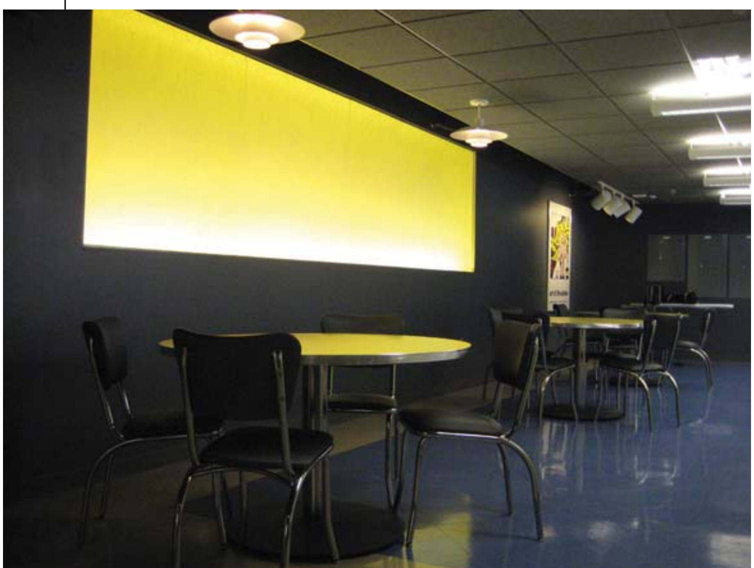
Purdue University, Owen Hall Laundry

West Lafayette, Indiana









Rowland Design, Inc.

Associated firms: L'Acquis Consulting Engineers; Beau Mitchell Corporation

Client:
Purdue University; Frances A. Córdova, President

Area of project entry category:
3,000 sq. ft.

Cost of project entry category:
$315,000

Cost/square foot of project entry category:
$105

Completion:
July 2007

Photographer:
Tricia Trick-Eckert



Imagine doing laundry in a space that is devoid of natural light, is stifling hot with no air conditioning, has a low ceiling and, in general, is a drab and uninspiring environment. For college students at Purdue University, the old space lacked any study or socializing opportunities.

The university envisioned Owen Laundry as yet another space within a residence hall that would enhance the student-life experience, thereby attracting and retaining students.

Lighting was improved using a combination of fluorescent, pendant and track lighting, bringing more energy into the space despite a low ceiling.

Separate areas were created for doing laundry, studying and watching TV. Glass partitions were used to not only bring light in through all areas, but also create a necessary sound barrier.

Program requirements included adding the much-needed air conditioning, additional washers and dryers, and upgrading furniture and finishes, creating splashes of bright color throughout.

Another entry was designed to encourage students to use the revitalized space—another opportunity to stimulate learning.

University of Kansas, Krehbiel Scholarship Hall
Lawrence, Kansas



Treanor Architects

Client:
University of Kansas; Diana Robertson, Director of Student Housing

Area of project entry category:
16,500 sq. ft.

Cost of project entry category:
$3,462,000

Cost/square foot of project entry category:
$209.82

Completion:
July 2008

Photographer:
Steve Swalwell/Architectural Foto Graphic



Opened in fall 2008, the 16,500-square-foot Krehbiel Scholarship Hall was designed to blend seamlessly into a historic neighborhood that surrounds the University of Kansas.

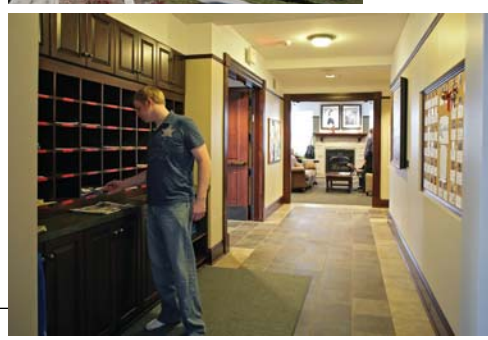
Krehbiel Hall houses 50 men, a director, president and proctor. As part of the scholarship hall experience, all students are required to help prepare meals in the full-service kitchen on site. The living room, which is adjacent to the main entrance, was designed with the elements of a private residence—integrating a fireplace with stone hearth, natural light and plentiful seating for residents and visitors.

Artifacts from a previously razed building on the university campus have been incorporated into the design. Ironwork railing was used on the hall's exterior, and recovered spindles and a pendant light fixture adorn the primary stair.

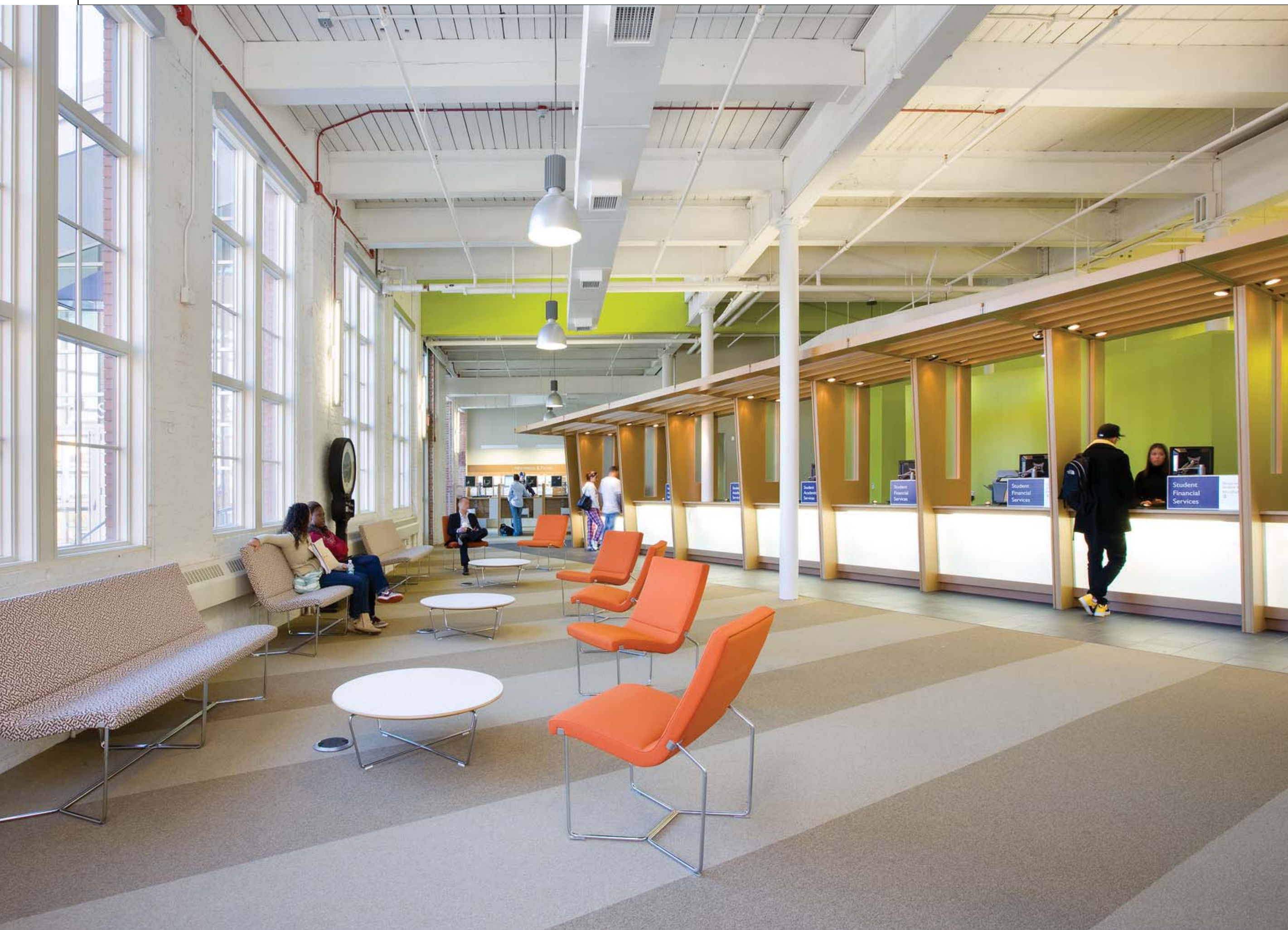
Krehbiel Hall incorporates many LEED design principles, including a geothermal mechanical system that uses the Earth's relatively constant temperature to provide heating and cooling for the building. Daylight was maximized throughout all private and public spaces.







Johnson & Wales University, Student Services Center
Providence, Rhode Island





As part of Johnson & Wales University's (JWU) strategic vision to enhance the student experience on campus, the architect transformed an abandoned 1921 jewelry factory building at the edge of its Providence campus into a new Student Services Center. The renovated 45,750-square-foot building consolidates functions that previously were spread throughout the university's Providence Downcity campus. The facility provides students with a "one-stop" experience for academic and financial needs, as well as resources for international students and study-abroad programs.

The design preserves the industrial and historical character of the original building, while providing modern systems and advanced technology. The new program offers JWU a unique opportunity to co-locate student support services, thus simplifying the process for class registration, financial transactions, and academic and financial counseling. In addition to meeting the center's requirements, the contemporary loft-like feel of the interior spaces creates an appealing and comfortable setting for students to meet and hang out.

Helping to further the university's goal of becoming "America's Career University," the center has streamlined the "customer" experience and revolutionized the way students manage their business affairs.

ARC/Architectural Resources Cambridge

Client:
Johnson & Wales University; Christopher Placco, Vice President, Facilities Management

Area of project entry category:
45,750 sq. ft.

Cost of project entry category:
$12.5 million

Cost/square foot of project entry category:
$273

Completion:
July 2008

Photographer:
Warren Patterson







"The new center exemplifies two of Johnson & Wales' guiding principles: our commitment to urban revitalization and thoughtful historical renovation. These principles contribute to the history and vitality of our cities, but also demonstrate our strong commitment to sustainability and the environment."

—Christopher Placco, Vice President of Facilities Management for the Providence campus





Davenport University, Student Center
Grand Rapids, Michigan



Integrated Architecture

Client:
Davenport University; Michael Volk, CPA, Executive Vice President, Finance/Interim President

Area of project entry category:
22,260 sq. ft.

Total area:
80,000 sq. ft.

Total cost:
$13.1 million

Total cost/square foot:
$163.75

Completion:
September 2008

Photographers:
Brian Kelly Photography; jmaconochie.com



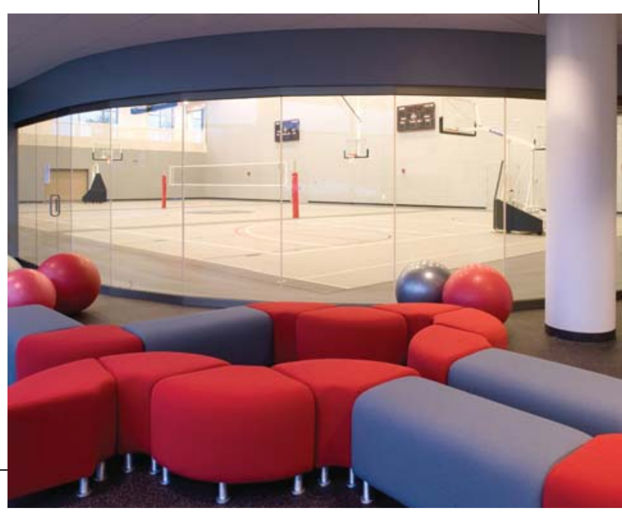
Designed to become the hub for campus activities and student-life events, the Davenport University Student Center fills a key role in the development of a residential campus as it serves up amenities rivaling those found in universities 10 times its size. From the towering climbing wall that stands guard at the entrance to the light-filled auxiliary gym and running track that overlooks the courts, the center creates a contemporary, student-focused environment with enclaves for studying, relaxing between classes and simply hanging out.

Filled with natural light and sustainable materials, the facility is in the process of earning a LEED rating, certifying that the building is as healthy as the students who work, study and play within.

Some challenges faced included merging a variety of activities and purposes in one building, and working on a fast-track schedule while creating an affordable, sustainable environment.

Innovative approaches to the project include extensive use of natural light; strong sightlines throughout the building; maximizing multipurpose space while mixing and merging space; and creating student enclaves for studying and socializing throughout the facility.





Oakland Community College, Student Services Center Addition

Auburn Hills, Michigan



Integrated Design Solutions, LLC

Client:
Oakland Community College; Daniel Cherewick, PE, Director, Physical Facilities

Area of project entry category:
28,000 sq. ft.

Cost of project entry category:
$5,143,600

Cost/square foot of project entry category:
$183.70

Total area:
57,139 sq. ft.

Total cost:
$14,940,900

Total cost/square foot:
$261.49

Completion:
August 2008

Photographers:
Lark Photography; Theresa Marcantonio/IDS

A commuter campus, Oakland Community College had no central space for students to gather between classes, either in large or smaller groups to make new social connections. Their clubs were separated from the rest of campus.

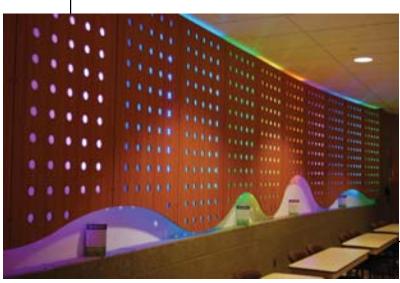
The new student center was to be young, upbeat and technologically advanced to persuade students to stay on campus. The interiors were designed with playful shapes and colors to create different study atmospheres within the same room. Elements such as the cone-shaped elevator tower with a circular stair inches from its sloped sides and curved, purple metal trellises provide a sense of human scale, while still enabling the student to feel the entire space. This contrasts with the green and white painted, curved walls. Ceiling heights varied from two-story to one-story to provide more intimate conversation in an area with warm wood-paneled areas. Three different floor levels, with connecting stairs and ramps, and various flooring materials were created to join the two existing building levels.

The building program includes an expanded bookstore and retail outlet; large and small meeting and conference spaces; a game room; spaces for student groups, clubs and committees; public-safety operations; and food services, including a full kitchen used for college-wide catering functions.











Purdue University, Mann Hall
West Lafayette, Indiana



Brenner Design Incorporated

Client:
Purdue University; Lawrence Fusaro, University Architect

Total area:
49,000 sq. ft.

Total cost:
$9.4 million

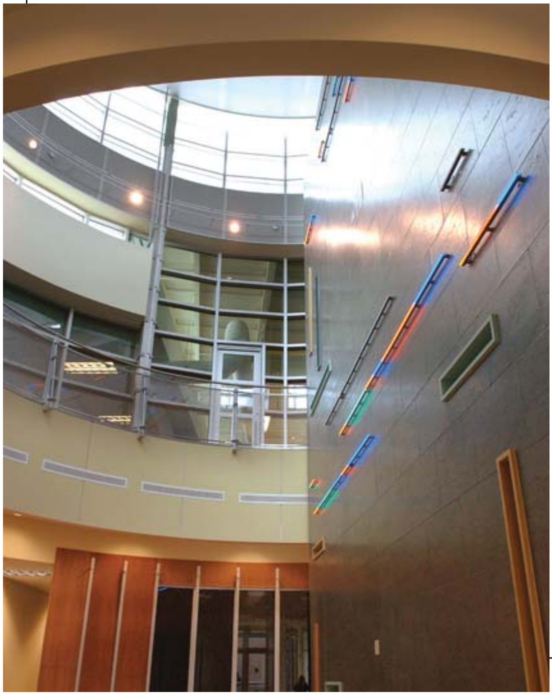
Total cost/square foot:
$191.84

Completion:
April 2007

Photographers:
Megan Van Valer; Brenner Design Incorporated

The concept for this new research and office building for Purdue University is the collaborative nature of discovery. The building houses an interior gathering area formed by the intersection of the axis of paths to adjacent buildings. Spaces include the Envisions multimedia lab and interactive conference rooms. The main server room opens off the rotunda and, when fully operational, will serve as the focal point of the first floor. This round space repeats vertically and is articulated by a cylindrical architectural element that becomes the rotunda of the new building. This rotunda connects the lobby, common area and exhibit space within the building.

The rotunda serves as the visual and functional hub of the building. Electronic displays were designed to highlight the accomplishments of research ideas developed in the super projects. The linear LED strip lights on the "technology wall" change color and pattern continuously, making the wall feel like a giant computer. Although flatscreen vision panels are planned to be mounted on the wall, they have not yet been installed.







The University of Akron, College of Business Administration Building, Finance Lab · *Akron, Ohio*







Before



Creo Design, Inc.

Associated firm: Schumacher Designs

Client:
Ted Curtis, AIA, NCARB, Vice President for Capital Planning and Facilities Management

Area of project entry category:
1,655 sq. ft.

Cost of project entry category:
$228,000

Cost/square foot of project entry category:
$137.76

Total cost:
$313,000

Total cost/square foot:
$189.12

Completion:
October 2007

Photographer:
Media Arts Group Inc.

The finance department of The University of Akron had the vision to produce an environment for teaching and research that would feature advanced multimedia and multiple display capabilities. Multiple sources of market data or industry information can be viewed simultaneously, including the ability for students to project their own information for discussion.

A variation of the "trading room" concept was selected. The focus was to first create a state-of-the-art facility that not only achieves the functional goals, but also provides a "wow" or marketing aspect for the finance department. Additionally, while working within the limitations of the existing structure, it was essential to maintain the budget, schedule, life-safety and program requirements.

The design team was able to maximize the ceiling height within the lab while maintaining the sprinkler line, ductwork, and HVAC supply-and-return piping. Five stationary tables and additional tablet-arm seating along the rear of the room maximize seating. The windows added to the atrium and the finance department's reception area enable the "wow" factor to be seen.



South Central College—North Mankato Campus, Chemistry and Industrial Labs Renovation · *North Mankato, Minnesota*



Paulsen Architects

Client:
South Central College; Keith Stover, President

Area of project entry category:
67,991 sq. ft.

Cost of project entry category:
$3,821,538

Cost/square foot of project entry category:
$56

Total area:
270,745 sq. ft.

Completion:
August 2006

Photographer:
Dean Riggott Photography



The renewal of South Central College's chemistry and industrial labs helped convert the college's identity from its original vocational school image into a contemporary community college.

Walls and lockers were removed and replaced with new windows and doors. Bold new colors and materials were introduced to the classrooms, labs and industrial areas to define departments within the building and transform it into a modern collegiate facility.

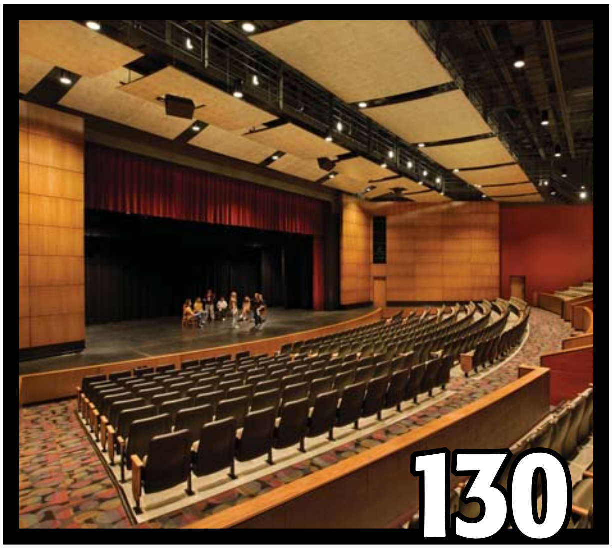
Inside the classes and labs, the rooms have new furniture and finishes. Ceiling planes also are designed to optimize lighting over work areas while removing large circular areas to the structure above to open up the space. The labs were updated with new casework and counters to accommodate an updated science curriculum.

The entry to the graphics production area was added to open up the space and enable other college students a glimpse into the printing equipment and training offered by the college. In the larger technical auto lab spaces, the ceiling plane is dropped down to define the lecture area to improve the lighting and acoustics.





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facility PLANNING

A guide to planning and design

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A special section in AMERICAN SCHOOL & UNIVERSITY



A new 512-seat performance auditorium at Wauconda High School, Lake County, Ill., offers a gathering space for community events. Photo courtesy of James Steinkamp/Steinkamp Photography

Take a Bow

Creating performing-arts centers that enrich communities and campuses.

By Greg Spitzer and Douglas J. Ogurek

From the undulating landscape of eastern Ohio's Tuscarawas County, known to locals as the "Tuscarawas Valley," a facility soon will rise that is as enticing as the performances it will stage. Its glass and metal facade will curve around brick and stone volumes to complement the community's historic architecture, and stimulate the development of Kent State University Tuscarawas in New Philadelphia, Ohio. But the 50,000-square-foot performing-arts center will bring much more than entertainment. "As a world-class venue, the performing-arts center will promote the economic vitality of the entire region," says Gregory Andrews, dean. "It will also enrich our music, theater and

dance programs."

The Kent State Tuscarawas story exemplifies a performing-arts center's potential to culturally and financially invigorate a community and campus. Performing-arts centers can provide benefits at the high school and collegiate levels, and administrators can take steps now to get the show started.

A profitable centerpiece

When a new performing-arts center comes to town, local businesses profit. Events and performances draw visitors to the community.

The community performing-arts center also can prompt the cultural enrichment of a region. The play that the high school English class studies becomes much more influential when the class attends a performance at the nearby college. Families have the opportunity to enjoy the theatergoing experience together.

Additionally, a performing-arts center offers opportunities for shared use. A college or university can open up its theater to K-12 school districts and community cultural organizations. Nearby businesses have more opportunities to attend or host conferences, and entertain clients. Similarly, a high school may share its performing-arts center with community organizations.

A flexible economic engine

Ideally, a performing-arts center will play many roles: entertainment venue, gathering space, resource for working professionals and learning hub. As a revenue generator, the facility should be booked as much as possible. Flexibility, combined with a smart design, will enable the facility to have a strong economic impact.

Besides the financial benefits, a performing-arts center can enhance the fine-arts curriculum, especially in terms of production. Students can use a performance auditorium to get hands-on experience with catwalks, lighting, sets and audiovisual technology.

CONTINUED...



When the Kent State Tuscarawas performing-arts center is complete, it will prompt many theatergoers to drive directly through downtown New Philadelphia, Ohio. Rendering courtesy of visualizedconcepts inc.

Performing-arts centers also can contribute to an expansion of programs in music, theater and dance. Lecturers and professional productions provide students more educational opportunities. And, a performing-arts center's design quality may help a student decide to attend a particular college.

Functional considerations

Education institutions that envision a performing-arts center may want to commission a demographic analysis of the surrounding community and beyond. This helps them define the types of events the center will accommodate: plays, dance performances, lectures, concerts, comedy shows.

The more precise the projected uses, the more effective the center will be. For instance, the types of music performances to be staged in the facility will influence the acoustic design. Other considerations: size of the institution related to demand and use, the community's culture and proximity to other major performing-arts venues. All these components affect the way a building is budgeted and planned.

Theater support space also depends on anticipated use: a facility designed to accommodate traveling road shows may require more elaborate dressing and green rooms. If the intent is to create a strong tie to the academic curriculum, the performing-arts center will need the teaching and practice spaces, equipment and infrastructure to make it a learning tool.

Projected use of the performing-arts center affects the lobby, too. In addition to functioning as a gathering space, the lobby can accommodate banquets, conferences and receptions. It may need to be equipped with catering and food-service support space.

The selection of team members also affects the center's success. Administrators may want to add audio-visual, acoustic and lighting systems consultants to their cast of architects and engineers.

Aesthetic matters

As a hub of culture, education and artistic expression, the exemplary performing-arts center energizes its campus and its community. It demands an aesthetically pleasing design.

In addition to size and technology, the budget affects aesthetic choices such as massing and materials. Administrators must prioritize items that relate to how the facility addresses the campus and community and its desired image.

Education institutions can create a riveting performing-arts center without spending a fortune. For instance, if a budget rules out a full glass facade, creative use of aluminum panels can help create an inspiring statement. Fly towers can be clad in cost-effective precast concrete and articulated with aluminum fins. These materials cost less, yet still give the institution a high-quality image. Another way of managing costs is to incorporate more high-level finishes in public spaces than in private, or "back of house," areas.

Extending the performance

A performing-arts center holds the power to not only enhance a performance, but also spark the theatergoing experience long before the curtain opens.

The experience begins as early as when the building is approached. The materials, shapes and lighting that compose the facade can build anticipation for the experience that lies within. Performing-arts centers with a sculptural quality announce the energy and drama of the performing arts. A series of curved and straight walls made of precast concrete and reflective metal contrast to a fly tower built of velvety red brick.

Another important consideration is how a theater appears at night, when most performances occur. For instance, a glowing glass lobby wall and window slots articulated in the metal can reflect the energy within the space. A large window above an entry can build excitement by illuminating imagery relating to the performance.

The facility's ability to affect the theatergoing experience carries into the lobby. It should be an elegant, uplifting space that encourages interaction.

The final physical stage in the spectator's journey is the house, the locus of the theatergoing experience. Every seat must have a good view of the stage. Through its interior design and seating arrangements, the performing-arts center can connect patrons with the performance. ■

Spitzer, AIA, LEED AP, is a senior design director at Chicago-based Legat Architects and Columbus, Ohio-based Legat & Kingscott. He can be reached at (312)756-1261 or gspitzer@legat.com. Ogurek, LEED AP, is a member of the K-12 education and higher-education teams at Legat Architects and Legat & Kingscott. He can be reached at (847)406-1141 or dogurek@legat.com.



The University of Cincinnati's Center for Academic and Research Excellence (CARE)/Crawley Building is one of the largest health-science research complexes in the country. Designed to achieve LEED gold certification, the facility houses some of the most technically advanced laboratory research and teaching space in the nation. Photo courtesy of Brad Feinknopf/Feinknopf Photography

The Science of Green

An integrated approach can incorporate sustainability into complex science and laboratory facilities.

By Raymond Cekauskas and Mark Hartmann

If you could envision a university campus as a fleet of buildings in an ocean, the science laboratory building would be the aircraft carrier: big, powerful and bristling with technology. For a campus facilities leader overseeing the growth of a collegiate setting and the efficient function of its buildings, when the opportunity arises to build a new laboratory facility, you might say his or her ship has just come in.

When one considers the enormous cost of science laboratory buildings, it's no surprise that the stream of environmental consciousness that has swept through campuses has had a profound effect on the design and engineering of these complex buildings. Advancing tech-

nologies, government regulations and rising energy costs all are driving the push to design greener building systems.

And although science and laboratory buildings are by far the most complex and energy-intensive buildings on campus, they also can be models of effective energy management, carbon-footprint control and sustainability.

Sustainable sites

Master plans, synergies with existing facilities and donor preferences often affect where a new building is situated.

Administrators have many options regarding sustainable design, such as protecting existing habitats, using previously developed sites and staying away from "virgin" land. The goal of protecting important habitats starts in the design phase with a clear understanding of the site's opportunities and constraints. Proper siting, condensed building footprints, and minimizing heat-island effects through the use of high-albedo materials, pervious paving and reduced parking areas, all play a role. A habitat with abundant trees provides benefits by shading building and exterior spaces, and reducing the cooling load.

Consider a storm-management approach that uses bioswales instead of piped sewers. They can be made into attractive, green site elements that remove water efficiently while cleaning it along the way. With smart and careful planning, new campus projects can coexist with nearby wetlands and bodies of water.

Designing a living place

The nature of scientific exploration requires facilities that meet current demands and are flexible enough to effectively respond to evolving scientific challenges and protocols. Module-based space planning is a strategy to give discipline and clarity to architectural and engineering systems. Flexible, mobile casework and furniture systems with plug-in utility connections are replacing traditional fixed benches with hard-piped services. The well-designed lab building will not only save operational and retrofit costs, but also will be a "living" place that can be changed and molded as required.

The building envelope also plays an important role in the sustainability of a facility. A design that responds

Redefining research

The University of Cincinnati's Center for Academic and Research Excellence (CARE)/Crawley Building provides 236,652 square feet of new space on the university's medical campus. Designed to attain LEED gold certification, the building is one of the largest research facilities in the nation. The CARE/Crawley Building is connected to the Medical Sciences Building (MSB), an existing lab and classroom facility built in the 1970s.

Six floors of laboratory space add about 240 new lab benches, state-of-the-art equipment and large spaces for work. Daylighting is a major component of the laboratory space, and on the west-facing windows of the north wing, unique 15-foot perforated aluminum panels enable individuals in the labs to adjust the amount of outside light allowed into the space.

The nine-story, naturally ventilated glass atrium connects the CARE/Crawley Building to the existing Medical Sciences Building, creating an open, urban-like setting that encourages interactivity and a sense of community.

The Metropolitan Sewer District of Cincinnati identified a need to detain storm water on site and release it slowly into the sewer system. In order not to overwhelm the city's sewer system, the project team created a 90,000-gallon storm-water-detention system and used stormwater for landscape irrigation.

Nearly 98 percent of the construction-related waste was recycled, and 77 percent of all materials used on the project were assembled within a 500-mile radius.



The Hertzberg-Davis Forensic Science Center at California State University's Los Angeles campus is one of the largest full-service crime laboratory facilities in the United States. Its entire floorplate is adaptable to laboratory use in anticipation of the future needs of each department within each agency. Photo courtesy of Benny Chan/Fotoworks

to solar inputs through smart orientation, roof overhangs, brise-soleil and other devices is more environmentally responsible than a concept based solely on architectural considerations. A science and laboratory building should respond to site-specific and regional influences. Light-colored, heat-reflecting roofs; high R-value insulation; high-performance, low-e, thermally broken glazing systems; and the use of regional materials all help in making a building more sustainable.

By maximizing the use of natural lighting, schools can save on energy costs and increase comfort, which enhances productivity. Generally, daylighting can adequately light 15 feet into a building when measured from the perimeter. Adding devices such as light shelves and clerestory windows can double that distance. Architects should utilize the best lamp and lighting-control technologies. Incandescent lamps use only 10 percent of their energy to make light—the rest is lost as heat. The good news is that even the most advanced T3 fluorescent lamps are being supplanted rapidly by advanced LED products.

Interior environments are important to consider. Additional air contamination that is breathed in lab buildings can occur from relatively benign sources found in paints and finishes. Use ASHRAE 62 as the standard for ventilation and indoor air quality. Requiring zero- and low-VOC carpets, paints, adhesives and sealants will reduce harmful effects from volatile organic compounds (VOCs).

Prior to occupancy, air-quality testing, carbon dioxide monitoring and a two-week flushing-out phase will help remove unhealthful VOCs generated from new materials and construction debris.

Aggressive energy control

Science and laboratory buildings are alpha consumers of electrical power. The key for aggressive energy conservation without compromising functionality is sophisticated engineering coupled with high-quality systems. Laboratory mechanical systems often require 35 to 50 percent of the construction budget.

Benchmarking similar laboratories is a good way to anticipate operating and maintenance costs for energy. This should be done before engineering design is complete. To verify that a building is performing most efficiently, hire a commissioning agent. Some other keys:

•Reuse applied heat energy through a recovery system. Capture heat energy from lab exhaust, and use it to preheat fresh outside air. Capture waste heat from the condenser water system and apply it to domestic hot-water



Integrating students, city and county

As one of the nation's largest crime laboratories, the Hertzberg-Davis Forensic Science Center at California State University Los Angeles (CSULA) combines academic teaching and research programs with the operating crime laboratories of the Los Angeles County Sheriff's Department and the city of Los Angeles Police.

This 209,000-square-foot facility creates a signature gateway to CSULA's campus, and accommodates about 400 staff members, as well as the university's School of Criminal Justice and Criminalistics.

Sustainability is a key component of this facility, which received LEED silver certification from the U.S. Green Building Council. Energy performance of the building is enhanced through the use of high-efficiency variable-speed chillers; premium-efficiency variable-speed pumps on the secondary cooling and heating hot-water pumps; and super-efficient built-up variable-volume air-handling units. Continuous dimming daylighting controls and occupancy sensors are used for light fixtures in lab and administration areas, and the building's narrow floor plate maximizes natural light to interior spaces.

Situated near public transportation, the facility also features a 300,000-gallon rain-storage system in the north parking area, which reduces the need to use potable water for irrigation. A cool roof reflects solar energy to reduce the heat-island effect and lower summer HVAC cooling loads.

On the inside, laboratory fume hoods are continuously exhausted and supplied 100 percent outside-air makeup, while maintaining negative pressure in relation to adjacent spaces to protect occupants.

heating. The use of recovery coils and dessicant wheels can recover enormous amounts of energy. In some parts of the country, the payback for these systems can be just a year.

•If an institution has boilers, install economizers. Instead of a central hot-water system for domestic use, consider using smaller-scaled hot-water tanks distributed at locations of need with temperatures at 105°F vs. 120°F.

•Partial-load system efficiency is important because most lab systems do not operate at identical levels of intensity consistently over time. Use equipment designed to operate at efficiently under partial and varying loads—a very common condition with higher-education laboratories.

•Officials should review requirements for fume hoods carefully so they can reduce their quantity and size. Use low-flow hoods that respond to changing levels of experimental activity, as well as snorkels and ventilated storage cabinets that pinpoint exhaust loads. Follow the American National Standards Institute Z9.5 ventilation standard for fume hood and room-pressure control.

At a macro building level, use variable-volume supply and exhaust systems to reduce ventilation during unoccupied times. If the system design is based on minimum air-change rates vs. demand-generated cooling or makeup-air loads, then constant-volume systems should be considered.

What's next?

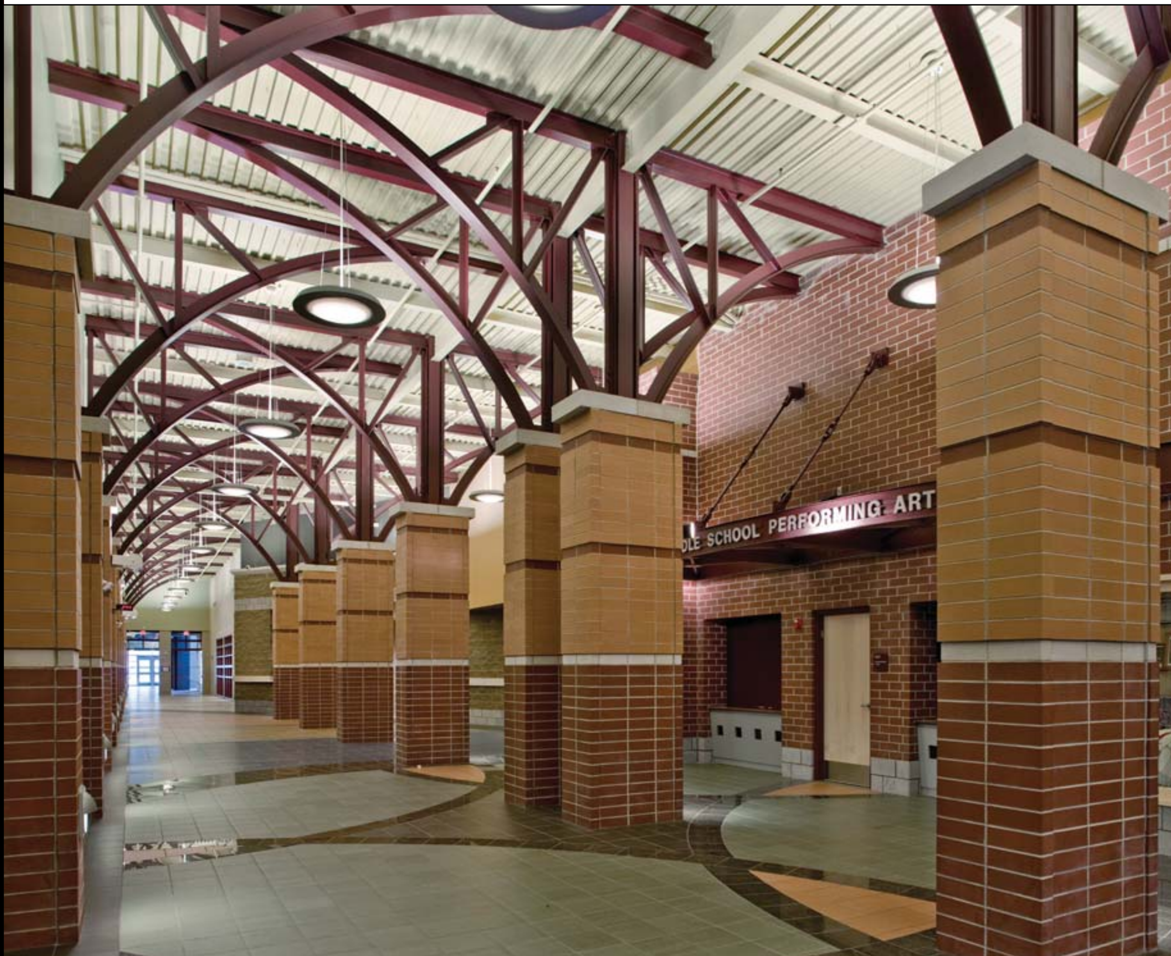
The elements of sustainability are evolving constantly, and the seriousness of climate change is pushing education institutions to deliver higher-performance buildings. Government, owners, designers and builders are taking action to arrive at carbon-neutral designs for new buildings and major renovations by the year 2030.

California is leading the way with introducing initiatives, passing the Global Warming Solutions Act (AB 32) in 2006. It requires a reduction of greenhouse gas emissions to 1990 levels by 2020. This requires a reduction of 15 percent from 2008 levels. Recognizing that even this measure does not adequately address the severity of the climate-change problem, California Gov. Arnold Schwarzenegger signed California Executive Order S-3-05, which requires an 80 percent reduction of greenhouse gases from 1990 levels by 2050. ■



The University of Cincinnati's Center for Academic and Research Excellence (CARE)/Crawley Building's naturally ventilated, nine-story glass atrium is an urban hub of activity. Photo courtesy of Brad Feinknopf/Feinknopf Photography

Cekauskas, AIA, LEED AP, EDAC, is a design principal at Harley Ellis Devereaux, Southfield, Mich. He can be reached at (248)233-0079 or rcekauskas@hedev.com. Hartmann, AIA, LEED AP, is an associate with the firm. He can be reached at (312)324-7471 or mchartmann@hedev.com.



Pattengill Middle School, Lansing, Mich. Photo courtesy of Bill Lindhout Photography

Creative Partnerships

Tips for selecting an interior designer for your school project.

By Mary Bamborough

School design has developed into a specialized area in the interior design field. When considering candidates for a school or university project, education institutions should move beyond a prospective designer's resume of experience and accomplishments in order to get a better handle on what to expect when working together. Five areas—"the 5 Cs"—play an important role in helping a project run smoothly and creating a successful school interior environment:

•**Communication** is key when hiring an interior designer. During a project, communication should be frequent and robust. The team needs to be able to bounce ideas off each other and discuss options freely. They must be able to understand each other's point of view and connect with each other. If they are not on the same wavelength, the project will suffer.

•**Commitment.** How dedicated



Southwood Elementary School, Kentwood, Mich. Photo courtesy of Bill Lindhout Photography

to the project goals is the interior designer? All involved in the project must have a compelling reason for doing what they are doing and a desire to improve upon an idea or a space or a theme. Together, they must be committed to finding solutions, even during the challenging times of budget crunches and time constraints.

•**Clarity.** Does the interior designer appear to be organized and a clear thinker? With each project, a host of design-related details must be coordinated, so being organized and having a good business sense is important—and that includes keeping up with things as mundane as meeting notes.

During the planning stages of a project, it's important for an interior designer to work through design details with the architect and contractor. Find out whether what the team is dreaming about can be built and is affordable. And what happens if materials are discontinued? Or if the contractor wants to substitute other materials that are less expensive (and perhaps of inferior quality)? Following up—clearly and concisely—in a timely manner to situations like these is another way a well-qualified interior designer can handle project challenges.

•**Creativity.** Talk to prospective interior designers about the creative process and what it means to them. How do they approach a project creatively? Do they have passion for what they are creating? What kinds of things do they do to brainstorm solutions? How do they present these ideas? Do they personalize the solution for a school or is it a cookie-cutter solution? Seek out unique and interesting approaches to the project, so there is a meaningful story for the facility that everyone understands and can tell others about. It's exciting to be part of a team working to create a meaningful learning environment where staff and students can excel.

•**Color.** In his book *Color, Environment, and Human Response*, author Frank H. Mahnke writes, "As one (professional) has stated: 'In the past, it was believed that schools must be colorful, but that is over. Children bring enough life into the rooms. A discreet light gray in a concrete-tone, so to speak, is therefore, the right choice for school buildings.'" But Mahnke contends, "What is forgotten here is that the more impersonal the schoolroom, the more it will encourage liveliness as a compensation. An



Georgetown Elementary School, Hudsonville, Mich. Photo courtesy of Bill Lindhout Photography

impersonal environment brings about a reaction. In this case, the room devoid of visual pleasure or a sense of caring channels the children's feelings toward irritability, fidgeting, etc."

Using certain colors can help create environments that are safe, interesting and conducive to studying—while promoting mental and physical health.

There is no substitute for well-qualified people on the team. Take time to investigate who will be most capable to solve challenges and work the hardest. Find someone who is there to serve the institution and its design, not his or her own ego. ■

Bamborough, IIDA, is director of interior design at GMB Architecture + Engineering, Holland, Mich. She can be reached at (616)796-0200.



A participatory planning approach should include people with diverse backgrounds and a balance of community members, staff, parents, students and others.

Inspired Planning

A long-range facilities plan can help education institutions meet current needs and prepare for the future.

By Paul W. Erickson

Long-range facility planning is a comprehensive process for preparing education institutions for the future and confirm that facilities meet current needs. A long-range facilities plan (LRFP) evaluates how facilities support programs and the educational needs of students, staff and the community.

Each school district or college has unique needs and challenges; it may need to address enrollment growth or decline, changing demographic patterns and shifts, changing educational delivery and curriculum, phasing out or repair of aging facilities, grade-level reconfiguration, community needs and other issues.

Rather than addressing issues independently, the LRFP is an opportunity to consolidate all items into one plan.

Launching the plan

An education institution should launch a long-range facilities plan concurrently with its educational strategic plan. In this way, the long-range facilities plan supports goals, objectives and action items identified in the strategic plan.

Key stakeholder "buy-in" is imperative for plan acceptance. To start the process, hire a facilities planner to evaluate educational adequacy, facilities conditions and to conduct dialogue with stakeholders. A participatory planning approach should include people with diverse backgrounds and a balance of community members, education administrators, board members, staff, parents, students, civic and business leaders, governmental officials, senior citizens and anyone who will enhance the process.

For the LRFP, form an executive committee, a steering committee, focus groups and conduct community meetings. The executive committee of about six key decisionmakers functions as a guide for the plan objectives. The steering committee, consisting of 40 or more participants, is responsible for providing input into activities, reviews, discussions and options for recommendations. Focus groups expand input from staff, students, parents and community members in special topics and areas of particular concern. Conducting community meetings lends transparency to the process, and provides for immediate input and feedback.

Reaching consensus

Make it clear that decisionmaking is by consensus. Defining "consensus" at the beginning of the process lets participants acknowledge that all opinions are respected, and that even though their ideas may not be adopted, the recommendations are arrived at in a fair and objective manner.

At the beginning, information gathering frequently occurs "behind the scenes" as the facilities planner analyzes aspects of facilities and the support of curriculum. Once shared with committees, the adequacies and inadequacies of facilities quickly surface, which leads to establishing priorities. Committees can take many approaches to prioritizing; breaking the large group into smaller groups encourages open dialogue and idea-sharing. Have each small group discuss strengths of the education institution's facilities; this celebrates past accomplishments. Discuss facilities shortcomings, and focus on immediate and long-term needs. Differentiate between educational needs and facilities needs. At this stage, participants can prioritize facilities strengths and shortcomings, and determine the most important items that support the educational strategic plan.

Standard components

Although each LRFP is unique, there are standard plan components:

•**Goals and objectives.** State a vision, goal or philosophy outcome relating to the institution's identity. Confirm how technology, flexibility and expansion expectations and the community affect desired outcomes.

•**Educational adequacy.** Compare facilities with state guidelines; analyze master schedules for section sizes, course offerings, periods per day and utilization efficiencies; research the effect of daily operations, athletics and community programs on core facilities; and develop space standard templates for equity across the district or campus. Consider the quality of space, function, expansion needs, aesthetics, safety and security, site size and circulation, square footage, grade-level configuration, instructional aids, program support, flexibility, capacities, space utilization, seating efficiency and repurposing opportunities.

•**Facilities assessment.** Assess facilities for proper maintenance and operation of the building site and envelope, interior materials and systems, mechanical and electrical systems, and technology components. Consider deferred maintenance, capital-renewal issues, mandated health and safety upgrades, facility obsolescence, physical-plant condition, codes and accessibility.

•**Operations and sustainability.** Develop and assess life-cycle costs and paybacks, energy efficiency, administrative and transportation efficiencies, demographics and maintenance measures. One-time initial costs vs. recurring annual operating costs are major considerations for an institution's long-term viability. Environmental responsiveness of design and maintenance should be considered. Committees require this information for decisionmaking as facilities options are developed.

•**Community impact.** Consider a community survey. Survey questions provide an institution with quick responses and opinions (though sometimes without adequate background information). Other approaches include obtaining feedback at community meetings from small-group discussions or using electronic response devices at community meetings to obtain immediate feedback on topics presented. Consider community services, historical significance, political aspects and property values.

•**Implementation assessment.** As options are developed, consider how carrying out the plan affects school operations. Phasing, construction sequencing, time, cost and the effect on learning with different building solutions are important considerations in determining final direction.

Community involvement

The St. Charles (Ill.) Community Unit School District embarked on a long-range facilities plan involving several hundred community members, numerous business leaders, school administrators, staff, students and government officials.

During the year-long strategic and facilities-planning study, pertinent topics were presented by education and facilities-planning consultants, demographers, district specialists and government officials. They informed the community of current conditions and future trends, and sought input from community members. Information gathering occurred at regular meetings through small-group discussion. From this effort, the district received immediate response from hundreds of community members.

"We would present a topic, have small-group discussions and receive immediate community feedback all in one meeting, and then present facilities options based on the feedback for discussion and consideration at the next meeting," says Donald Schlomann, superintendent. "We addressed topics including class size, building capacity and grade configuration. The transparency with the community was valuable in obtaining district credibility and a positive direction."

Confirm how technology, flexibility and expansion expectations, and the community affect desired outcomes.

Seeing results

After completing the LRFP, move quickly to communicate the recommendations to policymakers; a plan does no good sitting on a shelf. Also, years go by quickly, and it is much easier to update an LRFP than completely start over. With a plan in place, the process of updating is streamlined; it is an opportunity to reconfirm prior goals and objectives, and to re-evaluate recommendations for facilities.

For a successful outcome, organize committees, identify planning criteria, collect data, gather information from user groups, communicate findings, develop and refine the options, determine direction and carry out the plan. A long-range facilities plan provides policymakers direction in allocating finances, enhancing curriculum, promoting credibility and making decisions. ■

Erickson, AIA/NCARB/REFP, is president of ATS&R Planners/Architects/Engineers, Minneapolis, a multi-disciplined firm specializing in school facilities planning and design. He can be reached at perickson@atsr.com.



A simple, inexpensive fix to a drab classroom is to change the paint color.

Color Sense

The classroom environment can affect students' behavior, sense of well-being and academic success.

By Heidi S.S. Johnson and Jennifer A. Maki

A recent study on how the condition of a school building can affect academic achievement provides empirical evidence of the effects of building quality on academic outcomes. Other literature concerning classroom environment discusses these main themes: color, size, sound, light, windows and furniture. Studies have shown that classrooms painted with color, lighted with full-spectrum lighting, and devoid of visual noise resulted in students with reduced blood pressure; less off-task behavior, aggressiveness, disruptiveness; and improved academic performance.

The goal of a study by members of the WellU Academic Integration



Test room before being painted



Test room after being painted

Subcommittee of The College of St. Scholastica's College's Healthy Campus Initiative plan was to determine whether changing color in the classroom could have a measurable effect on students. One simple improvement a school can make in a classroom is adding color; paint is relatively inexpensive, and painting is not extremely labor-intensive.

Two similar classrooms were identified. A test classroom was painted in a manner congruent with suggestions in the literature: three walls were painted beige, a color that reduces tension, and the front wall was painted blue-gray, a complementary or darker hue. The purpose of the front wall's paint color is to reduce student eyestrain during class. A control classroom remained all white.

Through a survey, 100 college students were studied before and after in each classroom using three methods, including on-task behavior, academic performance and sense of well-being.

Is it possible that a colorful classroom can increase student performance?

Study design and results

To assess whether the color of the walls affected the students, the study measured three areas: performance as measured by off-task behavior, self-reports of how the classrooms affected students' learning and emotions, and grades. Two classrooms of college chemistry students were studied. The test group was monitored first in an all-white classroom and then after that room had been painted; the control group was monitored both times in an all-white classroom.

The results:

•**Off-task behavior**: Before data on the chemistry classes was collected, a college biology class was observed to assess reliability of the observers' definition of off-task behavior. Off-task behavior involved two observers sweeping the class every five minutes and counting the number of students off task at that time. During each class period, this was done nine times by two observers, resulting in 18 measurements per class period. Although two class periods for each group were examined before and after the painting, for simplicity's sake, only the class periods directly before and after the painting were analyzed.

There were outliers, which would have skewed averages, so (a) the median number of off-task behaviors across the 18 measurements by the two observers per class period was computed, (b) each median was divided by the number of students in the class, and (c) these "average medians" were converted to percentages by multiplying them by 100. The control group showed little change in off-task behavior from before to after painting (5.56 percent before to 5.66 percent after), but the test group decreased from 4.69 percent before to 3.03 percent after painting.

•**Surveys**: After the test classroom had been painted, students in each group were given a survey consisting of seven questions on the degree to

which various aspects of the classroom—specifically lighting, ability to hear, color and overall atmosphere—affected their learning, as well as how the classroom affected their ability to focus, anxiety level and sense of well-being. Students rated each aspect on a scale of one to five (one was negative, and five was positive). The ratings for each item were averaged across the students in each class.

The test and control groups did not differ on perceived impact of lighting, ability to hear or overall atmosphere, but the test group rated the impact of color on its learning more positively. Additionally, although students in the two groups did not differ on their ratings of how the classroom affected their ability to focus, the test group said the classroom positively affected its anxiety level (presumably making the students less anxious) and sense of well-being.

•**Grades**: Students' before- and after-painting quiz scores were averaged separately for the control and test group. Scores could range from 0 (low) to 10 (high). Then a 2 (group: control, test) x 2 (time of measurement: before, after) analysis of variance was conducted to determine whether quiz scores changed over time as a function of group.

Results indicated that although the control and test groups had similar quiz scores before painting and both groups declined over the semester, there was greater decline in the control than in the test group.

The same 2 x 2 analysis conducted on exam scores (which could range from 0 as a low to 100 as a high) indicated only that they increased for both groups from before to after painting.

Discussion of color

The results of this study showed that color in a classroom can reduce off-task behavior and anxiety, as well as positively affect perceptions of learning and sense of well-being. When the test group was observed after the classroom had been painted, it was striking to see how much more attentive the students were. The lighting in the classroom was not changed, but once the walls were painted, shadows and glare appeared to decrease, which likely helped students focus. In terms of impact on actual learning, although there was not a large difference in exam grades between the two groups before and after painting, the test group at least did not falter as much with regard to quiz scores.

One limitation of the study was that the control and test groups were taught by different professors. However, the two professors worked collaboratively to cover the same material in the same timeframe, and compared quizzes and exams for equal difficulty. Second, the test classroom had desks, and the control classroom had tables. Both of these conditions are potential confounds, but as descriptive statistics indicated that the two professors' groups had similar "before" ratings, "after" ratings likely were because of the room color change.

This simple change appeared to positively affect students' ability to stay on task, perceptions of learning and emotional well-being. Education institutions may want to consider adding color and making other small environmental changes for classrooms at all levels. ■

Johnson, M.L.I.S., M.A., is an assistant professor: library first-year/information literacy librarian with The College of St. Scholastica, Duluth, Minn. Maki, Ph.D., is an assistant professor of chemistry at the college. Debra Schroeder, Ph.D., assisted with statistical analysis.



Numerous studies have shown a correlation between the physical school environment and student performance.

Test Case

Do new schools mean improved test scores?

By James E. Rydeen

Opponents to a recent bond referendum argued that new buildings did nothing to improve education in the district: "Shiny new schools do not reduce class size or give them better test scores."

But guess what? Shiny new schools do improve student test scores! The Carnegie Foundation for the Advancement of Teaching found that student attitudes about education directly reflect their learning environment. Specific building features related to human comfort (e.g. building age, climate control, indoor air quality, lighting, acoustical control) have been shown to influence student achievement.

Research examining student achievement scores and school facilities' quality ratings (using the percentage of students in free- and reduced-price-lunch programs as a means to control for socioeconomic status) has shown differences of be-

tween five and 17 percentile points in achievement scores of students in functional buildings compared with scores of students in poor buildings.

Students in non-modernized buildings scored lower on basic skills assessments than those students in modernized or new buildings. In one study, building age accounted for as much as 3.3 percent of the variance in students' scores on the Iowa Test of Basic Skills.

A before-and-after study of renovated schools in Syracuse, N.Y., found improved achievement among students in the refurbished buildings. Another research effort compared students at the newest and the oldest buildings in a district. Those attending the new school out-performed their peers in the older school on all available measures of achievement.

"Classroom Acoustics," a guide published by the Acoustical Society of America, states that higher student achievement is associated with schools that have less noise interference.

In Washington, D.C., researchers looked at public schools to determine how parental involvement and building condition related to student achievement. Test scores increased an average of 5 percent as the condition category of school buildings improved from poor to fair condition and from fair to excellent condition. Students in buildings rated as poor had test scores that averaged 5 percent lower than students in buildings categorized as fair and 10 percent lower than students in buildings categorized as excellent.

The nature and quality of the built learning environment also have been shown to affect teacher attitudes, behaviors and performance. Studies have concluded that teacher retention and attrition rates are affected by the quality of school facilities.

The relationship between the quality of a school facility and a school's engagement with the community presents an important focus for research. Communities that take an active role in their schools come to understand the needs associated with teaching and learning, including physical environments. Poor-quality school buildings are likely to be perceived by inhabitants and community members as an indication of a lack of commitment to the aims of schooling.

Specific design classifications that have been related to improved student achievement on standardized tests include pathways encouraging ease of movement, positive outdoor spaces, large-group meeting spaces, instructional neighborhoods, ample egress, natural light and views, the presence of technology for teachers, and pleasing or appropriate color, defined as age- and activity-appropriate color choices.

The aesthetic features of a school can foster a strong sense of belonging that, in turn, can generate an enthusiasm for learning. ■

Rydeen, FAIA, is AS&U's Facility Planning columnist and an architect/facility planning specialist with ATS&R, Minneapolis.

State Listing

**Citation Winner*

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Johnson & Wales University, Student Services Center.. p. 120-121
Cabinets: Milwork One. *Cafeteria furniture:* Knoll, Versteel. *Carpet:* Constantine. *Computers:* Dell. *Drinking fountains:* Halsey Taylor. *Elevators:* Otis. *Flooring:* Johnsonite, Lonseal. *Indoor lighting:* Bartco, Finelite, Lithonia Lighting. *Lounge furniture:* Harter, Segis. *Office furniture:* Haworth. *Paint:* Sherwin-Williams. *Signage:* Advanced Signing. *Skylights:* Kalwall. *Washroom accessories:* Chicago Faucet, Kohler. *Washroom fixtures:* American Standard, Kohler. *Windows:* Eagle.

Archi•Technics/3, Inc.

10405 Town and Country Way
Houston, TX 77024-1128
(713)468-9388

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Architecture Design Group, Inc.

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South Bend, IN 46617
(574)288-6626

Indiana University South Bend, Administration Building Remodel .... p. 86
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ARCON Associates, Inc.

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Lombard, IL 60148
(630)495-1900

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ATS&R Planners/Architects/ Engineers

8501 Golden Valley Road, Suite 300
Minneapolis, MN 55427
(800)545-3731

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BarberMcMurry architects

623 Lindsay Place
Knoxville, TN 37919
(865)934-1915

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Basic Industries, Inc.

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Houston, TX 77008-6008
(713)671-9036

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Office furniture: Steelcase.

Beacon Architectural Associates

145 South St.
Boston, MA 02111
(617)357-7171

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No supplier information available.

Bond Wolfe Architects

200 S. Bemiston Ave.
St. Louis, MO 63105
(314)863-4994

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BRPH Architects-Engineers, Inc.

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(407)896-9301

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Cannon Moss Brygger & Associates

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Sioux City, IA 51101
(712)274-2933

Lewis & Clark Interpretive Center, Betty Strong Encounter Center....................................... p. 80
Auditorium/assembly furniture: Irwin Seating. *Brick/Masonry:* Owens Corning. *Carpet:* Lees. *Ceilings:* USG. *Ceramic tile:* American Olean. *Door hardware:* Schlage, Stanley. *Emergency lighting:* Lithonia. *Flooring:* Bomanite. *Indoor lighting:* Lithonia. *Locks:* Schlage. *Paint:* Benjamin Moore, Sherwin-Williams. *Roofing:* Certainteed. *Washroom accessories:* Bobrick. *Washroom/shower partitions:* Comtec. *Windows:* Pella.

***Unity Elementary School....... p. 39**
Athletic equipment: Porter Athletic Equipment. *Brick/Masonry:* Endicott Clay Products, Sioux City Brick. *Carpet:* Interface. *Ceilings:* USG. *Ceramic tile:* Crossville. *Communications systems:* Bogen. *Door hardware:* LCN Closers, Reese, Rockwood, Schlage, Stanley, Von Duprin. *Doors:* Kawneer, Steelcraft, VT Industries. *Draperies/Blinds:* Hunter Douglas. *Drinking fountains:* Elkay. *Flooring:* Crossville. *HVAC-control devices:* KMC Control. *HVAC units:* Trane. *Lockers:* Superior. *Markerboards:* Polyvision. *Paint:* PPG. *Physical-education flooring:* Robbins. *Roofing:* Mule-Hide. *Signage:* ASI. *Washroom accessories:* A&J Washroom Accessories. *Washroom fixtures:* Bradley, Church, Delta, Eljer, Elkay, Zurn. *Washroom/shower partitions:* Capitol Partitions, Comtec, Santana. *Windows:* Kawneer. *Wire management:* Cope Centipede.

CBT Architects

110 Canal St.
Boston, MA 02114
(617)646-5287

Suffolk University, 10 West Residence Hall......................... p. 114
Carpet: Collins & Aikman. *Ceilings:* Armstrong. *Ceramic tile:* Casa Grande, Dal-Tile, Royal Mesa. *Draperies/Blinds:* Levelor. *Elevators:* Otis. *Flooring:* Armstrong, Fritztile, Sincol. *HVAC-control devices:* Johnson Controls. *Indoor lighting:* Bega, Erco, Ledalite, Lightolier, Luminaire, Oxygen, Wal, Zanben. *Kitchen equipment:* Frigidaire, Whirlpool. *Laundry equipment:* Maytag. *Messageboards:* Forbo. *Office furniture:* Steelcase. *Paint:* Benjamin Moore. *Residence hall furniture:* Foliot. *Skylights:* Kalwall. *Washroom accessories:* Bobrick, Bradley. *Washroom fixtures:* Kohler, Toto.

CetraRuddy

584 Broadway, Suite 401
New York, NY 10012
(212)941-9801

Peter Cooper Village/Stuyvesant Town, Oval Kids................. p. 82-83
Carpet: American Floormats. *Ceramic tile:* Fritztile. *Door hardware:* Valli & Valli. *Flooring:* Atmosphere. *HVAC units:* Daikin. *Indoor lighting:* Louis Poulsen. *Kitchen equipment:* GE. *Markerboards:* MDC. *Multipurpose-areas furniture:* Bernhardt, Fatboy, Fritz Hansen, Vista. *Paint:* Benjamin Moore, EcoSpec Paint. *Physical-education flooring:* Atmosphere. *Playground equipment:* American Leisure. *Washroom accessories:* Duravit. *Washroom fixtures:* Vola. *Windows:* JE Berkowitz.

Chaintreuil | Jensen | Stark Architects, LLP

266 Alexander St.
Rochester, NY 14607
(585)244-3780

Rochester Institute of Technology, Administrative Services Building and Innovation Center...... p. 50, 96
No supplier information available.

Clark Nexsen

1523 Elizabeth Ave., Suite 300
Charlotte, NC 28204
(704)377-8800

***Duke University, Few Quad Renovation .... p. 33**
Brick/Masonry: Belden Brick. *Cabinets:* Garland. *Carpet:* Lees. *Ceilings:* Armstrong, Rulon, USG. *Ceramic tile:* Dal-Tile, Flor Gres, Walker Zanger. *Door hardware:* Best Locks, Folger Adam, Glynn-Johnson, Hager, NGP, Rockwood, Von Duprin, Yale. *Doors:* Curries, VT Industries. *Drinking fountains:* Elkay. *Elevators:* Otis. *Emergency lighting:* Canlet, Daybrite, Fail-Safe, Hess America, Kirlin, Ledalite, Lithonia, Liton, Mannington, Omega, Pathway, Shaper, Visa. *Fire/life-safety systems:* Edwards System Technologies. *Flooring:* Azrock, David Allen Terrazzo, Halo, National Cork. *HVAC-control devices:* Siemens. *HVAC units:* Cook, Markel, Mitsubishi, Nailor, Trane. *Indoor lighting:* Canlet, Daybrite, Fail-Safe, Hess America, Kirlin, Ledalite, Lithonia, Liton, Mannington, Omega, Shaper, Visa. *Insulation:* GreenGuard. *Kitchen equipment, Laundry equipment:* GE. *Lockers:* Penco. *Locks:* Best, Yale. *Lounge furniture:* Adden. *Markerboards:* Da-Lite. *Paint:* ICI. *Plumbing:* Charlotte Pipe, ProFlow, Willoughby. *Residence hall furniture:* Southwest Contract. *Signage:* Overstreet. *Washroom accessories:* Bobrick, Bradley, Georgia Pacific, GoJo, Wausau. *Washroom fixtures:* Elkay, Kohler, LaCava, Toto, Transolid, Whitehaus. *Washroom/shower partitions:* Capitol Partitions, Comtec. *Waste receptacles:* Rubbermaid.

The Collaborative Inc.

500 Madison Ave.
Toledo, OH 43604
(419)242-7405

***Central Ohio Technical College/ The Ohio State University—Newark, Warner Library and Student Center .... p. 40**
Brick/Masonry: Owens Corning, Wellnitz Co. *Carpet:* Shaw. *Ceilings:* Armstrong. *Ceramic tile:* American Clean Tile. *Chalkboards*: Claridge. *Door hardware:* Ives, NGP, Stanley, Von Duprin. *Doors:* Algoma Hardwoods, Steelcraft. *Draperies/Blinds:* Draper. *Elevators:* Schindler. *Flooring:* American Clean Tile. *Kitchen equipment:* Blodgett, Delfield, Hobart. *Lockers:* Penco. *Markerboards:* Claridge. *Movable partitions/walls:* Moderco. *Paint:* Sherwin-Williams. *Washroom accessories:* Bradley. *Washroom/shower partitions:* Global Partitions. *Windows:* Pilkington, Viracon.

Collaborative - TMP

500 Madison Ave.
Toledo, OH 43604
(248)338-4561

Penta Career Center ....p. 71
Auditorium/assembly furniture: Hussey Seating. *Brick/Masonry:* Dal-Tile, Geoquartz, Pacific Clay, Trend. *Cafeteria furniture:* Sico. *Carpet:* Durkan, Interface, Karastain. *Classroom furniture:* Izzy Design, VS Seating. *Computer furniture*: Interior Concepts. *Doors:* Algoma Hardwoods. *Draperies/Blinds:* Draper. *Flooring:* Amitco, Armstrong, Johnsonite, Mira. *Library/Media center furniture:* BCI, Brayton, Stylex, VS Seating. *Lounge furniture:* AGI, Brayton, KI, Steelcase. *Movable partitions/walls:* Maharam. *Office furniture:* Steelcase.

Cooper Carry

625 N. Washington St., Suite 200
Alexandria, VA 22314
(703)519-6152

DC Prep/Nia Community Public Charter School, Benning Charter School Renovation .... p. 89
Carpet: Patcraft. *Flooring:* Armstrong. *Ceilings:* Armstrong. *Paint:* Sherwin-Williams. *Indoor lighting:* Peerless Lighting, Finelite, Lithonia, Illuminating Experiences. *Other:* Johnsonite, Roppe.

Crabtree, Rohrbaugh & Associates

401 E. Winding Hill Road
Mechanicsburg, PA 17055
(717)458-0272

Spring Grove Area High School ....p. 72-73
Brick/Masonry: Glen-Gery. *Ceilings:* USG. *Door hardware:* Best Access. *Doors:* Oshkosh. *Fire/life-safety systems:* Simplex-Grinnell, Tyco. *Flooring:* Mannington, VCT. *HVAC-control devices:* Invensys. *HVAC units:* AAON. *Indoor lighting:* Columbia Lighting. *Insulation:* Johns Manville. *Paint:* Sherwin-Williams. *Roofing:* Firestone Building Products. *Security systems:* Sonitrol. *Skylights:* *Windows:* YKK.

Creo Design, Inc.

1038 Ghent Road
Akron, OH 44333
(330)670-0690

The University of Akron, College of Business Administration Building, Finance Lab .... p. 125
Carpet: Mannington. *Ceilings:* Armstrong. *Classroom furniture:* Data Link, KI, Peter Pepper. *Draperies/Blinds:* Draper. *Lounge furniture:* Relax Tablet. *Office furniture:* KI. *Paint:* Benjamin Moore.

The University of Akron, The Polsky Building: Summit College, Food Court and Atrium Renovation .... p. 90-91
Carpet: Milliken. *Ceilings:* Armstrong. *Classroom furniture:* Conductor Training Tables. *Flooring:* Armstrong. *Lounge furniture:* Arold, Fitt Table. *Office furniture:* Haworth, Sit On It. *Paint:* Benjamin Moore.

The University of Akron, Schrank Hall North Renovation .... p. 92
Carpet: Mannington. *Ceilings:*

Armstrong, Optima. *Ceramic tile:* Crossville. *Draperies/Blinds:* Coral Fabrics. *Flooring:* Mannington. *Markerboards:* Educational Equipment Corp. *Paint:* Benjamin Moore.

Design Organization, Inc.

57 Franklin St., Suite 201
Valparaiso, IN 46383
(219)476-1400

***Valparaiso University, Harre Union .... p. 18-19**

ADA/compliance equipment: Gyrotech. *Auditorium/assembly furniture:* Mitylite, Thonet. *Brick/Masonry:* Cold Spring, Endicott Clay Products, Mankato Stone. *Cafeteria furniture:* Allermuir, Knoll. *Carpet:* Constantine, Durkan. *Ceilings:* 9Wood, Armstrong. *Ceramic tile:* American Olean, Dal-Tile. *Computer furniture:* Markant. *Door hardware:* Best Access, Ives, National Guard, Rockwood, Von Duprin. *Doors:* Eggers. *Draperies/Blinds:* Mechoshade. *Drinking fountains:* Elkay. *Elevators:* Otis. *Emergency lighting:* Winona Lighting. *Fire/life-safety systems:* Siemens. *Flooring:* Altro, Dal-Tile, Estrie. *Hand-drying equipment:* Grainger. *HVAC-control devices:* Johnson Controls. *HVAC units, IAQ devices:* RAE. *Indoor lighting:* KSA, Kurt Versen, Lightolier, Lithonia, Louis Poulsen. *Insulation:* Dow, Owens Corning, Sarnatheam. *Kitchen equipment:* Atlas, Delfield, Jade, Kairak, Lincoln, Traulsen, Wells. *Library/Media center furniture:* Bright Chair, HBF. *Lockers:* Republic Storage Systems, Secura. *Locks:* Best Access. *Lounge furniture:* Bright Chair, Martin Brattrud. *Markerboards:* Egan Visual. *Messageboards:* Egan Visual. *Movable partitions/walls:* Hufcor. *Multipurpose-areas furniture:* Howe, Stylex. *Office furniture:* Haworth, Kimball. *Other:* Hallowell, Lennox. *Paint:* Benjamin Moore. *Plumbing:* Zurn. *Roofing:* Sarnafil. *Washroom accessories:* A&J Washroom Accessories, Bobrick. *Washroom fixtures:* Zurn. *Washroom/shower partitions:* Polly. *Windows:* YKK.

DeTella Planera Architects

4718 Indianapolis Blvd.
East Chicago, IN 46312
(219)397-1372

Purdue University Calumet, School of Management, Anderson Building ....p. 51

Carpet: Mohawk. *Ceilings:* Armstrong. *Door hardware:* Sargent. *Doors:* Algoma Hardwoods. *Flooring:* Mohawk. *HVAC-control devices:* Andora. *Indoor lighting:* Metalux, Tech Lighting. *Office furniture:* Steelcase. *Paint:* Sherwin-Williams.

DiLullo Associates, Inc.

16 Crystal St.
Melrose, MA 02176
(781)662-3498

Springfield College, Fieldhouse and Wellness Center ....p. 107

Athletic equipment: JayPro, Senoh. *Brick/Masonry:* KF Brick. *Carpet:* Blue Ridge. *Ceilings:* Armstrong. *Ceramic tile:* Crossville. *Chalkboards*: Walker Boards. *Door hardware:* Schlage, Von Duprin. *Doors:* Marshfield. *Drinking fountains:* Elkay. *Elevators:* ThyssenKrupp. *Flooring:* Connor. *HVAC units:* Trane. *Indoor lighting:* Daybrite. *Lockers:* Penco. *Lounge furniture:* August, Inc. *Office furniture:* Leland Chair, Momentum Fabric. *Paint:* Benjamin Moore. *Physical-education flooring:* Mondo. *Plumbing:* Delta, Elkay. *Roofing:* Carlisle. *Washroom accessories:* American Specialties. *Washroom/shower partitions:* Santana. *Windows:* Kawneer.

DLA Architects, Ltd.

15 Salt Creek Lane, Suite 400
Hinsdale, IL 60521
(630)230-0420

Lincoln-Way North High School, Performing Arts Center.......... p. 54

No supplier information available.

DLR Group

7290 W. 133rd St.
Overland Park, KS 66213
(913)897-7811

***The Adelson Educational Campus .... p. 26**

ADA/compliance equipment: Concord. *Athletic equipment:* Porter Athletic Equipment. *Auditorium/assembly furniture:* Track Seating. *Bleachers/Grandstands:* Interkal. *Brick/Masonry:* Glass Block. *Cabinets:* Nevamar. *Card systems:* Keri. *Carpet:* Cambridge, J&J Industries. *Ceilings:* Armstrong, Gridstone. *Ceramic tile:* Dal-Tile. *Clocks/Time management:* Colorado Time, Primex Wireless. *Communications systems:* Pelco, Rauland Borg. *Door hardware:* Arcadia, McKinney, Sargent. *Doors:* Algoma Hardwoods, New World West. *Draperies/Blinds:* Eurotwill, Mechoshade, Thernoveil. *Drinking fountains:* Bradley. *Elevators:* Otis. *Emergency lighting:* Kim. *Fire/life-safety systems:* Boscit, Honeywell, Potter, Victaulic. *Flooring:* Johnsonite, Mannington. *HVAC-control devices:* Automated Logic, Bapi. *HVAC units:* AAON, Carrier, Lennox, Reznor. *IAQ devices:* Engineered Air, Metal Aire. *Indoor lighting:* Kim, Lithonia. *Insulation:* Dryvit. *Kitchen equipment:* Genie. *Lockers:* Penco. *Locks:* McKinney, Sargent. *Markerboards:* Claridge. *Messageboards:* Knoll, Maharam. *Movable partitions/walls:* Hufcor. *Paint:* Sherwin-Williams. *Physical-education flooring:* Action Floor Systems. *Playground equipment:* Plexiplave. *Plumbing:* Bradley, HAWS, Kohler, Zurn. *Roofing:* Everguard, Fontana, US Intec. *Scoreboards/Clocks:* Primex Wireless. *Security systems:* Bosch, Honeywell, Keri. *Skylights:* Super Sky, Viracon. *Washroom accessories:* Bobrick, Henri. *Washroom fixtures:* Bradley, Elkay, Kohler. *Washroom/shower partitions:* Comtec. *Wire management:* LeGrand, Wiremold.

DLR Group

520 Nicollet Mall, Suite 200
Minneapolis, MN 55402
(612)977-3500

Century College, Science and Library Building .... p. 102
Brick/Masonry: Interstate Brick. *Carpet:* Collins & Aikman. *Ceilings:* Chicago Metallic, USG. *Ceramic tile:* Casa Grande. *Classroom furniture:* Davis, Versteel. *Communications systems:* Chatsworth, General Genspeed, Panduit. *Computer furniture:* Davis. *Door hardware:* Ingersoll Rand. *Doors:* Algoma Hardwoods, Special-Lite, Steelcraft. *Drinking fountains:* Elkay. *Elevators:* Schindler. *Emergency lighting:* Cooper Lighting. *Fire/life-safety systems:* Gamewell. *Flooring:* Mannington. *Hand-drying equipment:* Excel. *HVAC units:* Cook, McQuay. *IAQ devices:* Tridum. *Indoor lighting:* Cooper Lighting. *Insulation:* Dow. *Kitchen equipment:* Strategic Equipment. *Library/Media center furniture:* Worden. *Locks:* Schlage. *Lounge furniture:* Davis, Worden. *Markerboards:* Polyvision. *Multipurpose-areas furniture:* Davis, Worden. *Office furniture:* Fisher Hamilton, Haworth. *Other:* Intertec, Spacesaver. *Paint:* Benjamin Moore. *Plumbing:* Elkay. *Roofing:* Johns Manville. *Security systems:* Maxsys. *Signage:* Gemini, Gravatech. *Washroom accessories:* Bradley. *Washroom fixtures:* American Standard, Sloan Valve. *Washroom/shower partitions:* Global Stainless Steel. *Windows:* Interclad. *Wire management:* B-Line.

DMR Architects

777 Terrace Ave., Sixth Floor, Suite 607
Hasbrouck Heights, NJ 07604
(201)288-2600

Bergen Academies, Cafeteria Expansion and Renovation ..... p. 57
Brick/Masonry: Belden Brick. *Cafeteria furniture:* Falcom, Howe. *Ceilings:* Armstrong. *Ceramic tile:* Dal-Tile. *Doors:* Mohawk. *Emergency lighting:* McPhilben. *Flooring:* Tarkett. *HVAC units:* Trane. *Indoor lighting:* Focal Point, Ledalite. *Kitchen equipment:* Eagle. *Other:* Draper. *Paint:* Benjamin Moore. *Roofing:* Hickman. *Skylights:* Windows: Architectural Window.

EI Associates

2001 N. Front St., Building #3
Harrisburg, PA 17102
(717)233-4556

Paradise Elementary School ... p. 64
Brick/Masonry: Glen-Gery, Trenwyth, York Building Products. *Cabinets:* Case Systems. *Cafeteria furniture:* Regency. *Carpet:* Interface. *Ceilings:* Sound Seal, USG. *Ceramic tile:* Dal-Tile. *Clocks/Time management:* Monarch. *Communications systems:* Middle Atlantic Systems. *Door hardware:* Sargent. *Doors:* VT Industries. *Draperies/Blinds:* Draper. *Drinking fountains:* Oasis. *Elevators:* Schindler. *Emergency lighting:* HE Williams, Kirlin. *Fire/life-safety systems:* Warren Technology, Weir Floway Fire Pump. *Flooring:* Armstrong. *HVAC-control devices:* Sensus. *HVAC units:* Sensus. *IAQ devices:* Tridium Filter Corp. *Indoor lighting:* HE Williams, Kirlin. *Insulation:* Carlisle, Dow Chemical, Johns Manville. *Kitchen equipment:* Regeny. *Library/Media center furniture:* Brodart, Sherpa Concord. *Lockers:* Penco. *Locks:* Sargent. *Markerboards:* Claridge. *Movable partitions/walls:* Modernfold. *Multipurpose-areas furniture:* Performance Sports Systems. *Other:* Thomas, Inc., Cayuga Concrete Pipe Co., Hydra Stone, Pittsburgh Stage, Spacesaver, Tyler Union. *Paint:* MAB. *Physical-education flooring:* Action Floor Systems. *Playground equipment:* Playworld Systems. *Plumbing:* Kohler. *Roofing:* IMETCO. *Security systems:* Warren Technology. *Signage:* Bayuk Graphic Systems. *Washroom accessories:* American Specialties. *Washroom fixtures:* American Specialties. *Washroom/shower partitions:* Bobrick. *Windows:* Bilt-Best. *Wire management:* Lutron, P&S.

Fanning Howey

905 S. Woodland Ave.
Michigan City, IN 46360
(800)635-1911

***Warren G. Harding Elementary School ....p. 27**
Brick/Masonry: Trenwyth. *Carpet:* Lees. *Ceilings:* Armstrong, Chicago Metallic. *Ceramic tile:* Virginia Tile. *Computer furniture:* VS, Universal Custom Millwork. *Door hardware:* Hager, Roton, Von Duprin, Schlage, Rockwood, LCN Closers. *Doors:* Haas Door Co., EFCO, Steelcraft, Marshfield, Karona. *Emergency lighting:* Lithonia. *Flooring:* Armstrong, Crossville, Johnsonite, Horning. *Indoor lighting:* Lithonia, Louvers International, Hydrel, Celestial, Speclight. *Library/Media center furniture:* Universal Custom Millwork. *Paint:* ICI Dulux. *Skylights:* Underland Architectural Systems, Skywall. *Windows:* Moduline.

Fanning Howey

210 N. Lee St., Suite 208
Alexandria, VA 22314
(866)506-1677

***Phelps Architecture, Construction and Engineering High School .... p. 16-17**
Athletic equipment: Performance Sports Systems. *Bleachers/Grandstands:* Maxam. *Brick/Masonry:* Glen-Gery. *Cabinets:* Leonard Peterson. *Cafeteria furniture:* KI. *Carpet:* Lees. *Ceilings:* Armstrong. *Ceramic tile:* Dal-Tile. *Classroom furniture:* American Office Furniture, KI, Sit On It. *Clocks/Time management:* Electric Time Co. *Communications systems:* Rauland-Borg. *Computer furniture*: American Office Furniture, KI, Sit On It. *Computers:* Dell. *Door hardware:* Dorma, Hager, Rockwood. *Doors:* Karona, Maiman Co., Oshkosh. *Draperies/Blinds:* Spring Window Fashions. *Drinking fountains:* Acorn. *Elevators:* EECO, VA Controls. *Emergency lighting:* Katolight. *Fire/life-safety systems:* Hilti, Simplex-Grinnell, Tyco. *Flooring:* Altro, Armstrong, Arteffects, Roppe. *HVAC-control devices:* Exhausto. *HVAC units:*

McQuay. *IAQ devices:* AAON, AirKing, Greenheck. *Indoor lighting:* Atlantic, GE, LSI. *Kitchen equipment:* Blodgett, Cleveland, Delfield, GE. *Laundry equipment:* GE. *Library/Media center furniture:* Bretford, Leonard Peterson. *Lockers:* Penco. *Paint:* Duron. *Plumbing:* Bradley, Delta, Fiat, Proflo, Sloan Valve. *Roofing:* Firestone Building Products. *Scoreboards/Clocks:* Daktronics. *Signage:* Gelberg Signs. *Skylights:* Super Sky Products. *Washroom accessories:* Bobrick. *Washroom fixtures:* Bradley, Delta, Kohler. *Washroom/shower partitions:* Accurate Partition. *Waste receptacles:* KI. *Windows:* Litex, Peerless.

French Associates, Inc.

1600 Parkdale Road
Rochester, MI 48307
(248)656-1377

Brandon High School, Athletic Complex .... p. 108
Bleachers/Grandstands: Southern Bleacher Co. *HVAC-control devices:* Delta Temp. *HVAC units:* Delta Temp. *Kitchen equipment:* Stafford Smith.

Gross Ile High School .... p. 58
Elevators: Schindler. *Kitchen equipment:* Great Lakes Hotel Supply.

Gallo Architects & Development Consultants, Inc.

1311 W. Newport Center Drive, Suite A
Deerfield Beach, FL 33442
(954)794-0300

Florida Atlantic University, Chartwells Food Court .... p. 59
Cafeteria furniture: Seating Concepts. *Ceilings:* Armstrong. *Ceramic tile:* Dal-Tile. *Doors:* Eliason. *Emergency lighting:* Crescent. *Flooring:* Dal-Tile. *HVAC-control devices:* Johnson Controls, Metasys. *HVAC units:* Advance Air. *Indoor lighting:* Crescent, Halo, Spectrum. *Kitchen equipment:* Colzone, Deico, Hobart, Vulcan. *Paint:* Sherwin-Williams. *Plumbing:* Smith Mfg Co. *Roofing:* GAF. *Waste receptacles:* Seating Concepts.

Nova Southeastern University, Rolling Hills Graduate Student Housing ....p. 115
Card systems: Siemens. *Carpet:* Bigelow. *Ceilings:* Armstrong. *Ceramic tile:* Dal-Tile. *Communications systems:* Siemens. *Door hardware:* Best Access. *Doors:* Algoma Hardwoods, Steelcraft. *Elevators:* Otis. *Flooring:* Armstrong. *HVAC-control devices, units:* Sanyo. *Indoor lighting:* Progress Lighting, Winona Lighting. *Insulation:* Knauff. *Locks:* Siemens. *Paint:* Sherwin-Williams. *Plumbing:* Goulds, Lasko, Phoenix, Pro Flow. *Roofing:* Johns Manville. *Security systems:* Siemens. *Washroom accessories:* Bobrick. *Washroom fixtures:* Pro Flow. *Washroom/shower partitions:* Lasko. *Windows:* Crawford Tracey Corp.

Gensler

711 Louisiana St., Suite 300
Houston, TX 77002
(713)844-0000

***Houston Baptist University, Residential College—The Lake House .... p. 34**
ADA/compliance equipment: ASI. *Card systems:* Ingersoll-Rand. *Carpet:* Interface. *Ceilings:* Armstrong. *Door hardware:* IR Security & Safety. *Doors:* VT Industries. *Draperies/Blinds:* Bali. *Drinking fountains:* Elkay. *Elevators:* Schindler. *Flooring:* Armstrong. *Kitchen equipment:* Whirlpool. *Laundry equipment:* Whirlpool. *Lounge furniture:* Ekitta, L&D Furniture, Peter Pepper. *Messageboards:* Claridge. *Movable partitions/walls:* Dirt. *Multipurpose-areas furniture:* Audrey World America, Bernhardt, KI, Landscape Forms, Spinneybeck. *Office furniture:* Carnegie Xorel, Knoll, Leland, Maharam, Martin Brattrud, Nevins, Niemkamper, Tropitone. *Washroom accessories:* ASI. *Washroom fixtures:* American Standard. *Waste receptacles:* ASI.

Hall Partnership Architects, LLP

42 E. 21st St.
New York, NY 10010
(212)777-2090

State University of New York at New Paltz, Renovation of Old Main p. 97
Brick/Masonry: Glen-Gery. *Carpet:* Lees. *Ceilings:* Armstrong. *Ceramic tile:* Dal-Tile. *Doors:* ACME. *Drinking fountains:* American Standard. *Elevators:* ThyssenKrupp. *Fire/life-safety systems:* Simplex-Grinnell. *Flooring:* Armstrong. *Hand-drying equipment:* American Standard. *Insulation:* Thermafiber. *Locks:* Best Access. *Paint:* Devoe, Zolatone. *Roofing:* Johns Manville. *Security systems:* Best Access. *Washroom accessories:* American Standard. *Washroom fixtures:* American Standard. *Washroom/shower partitions:* Comtec.

Hight-Jackson Associates, PA

5201 Village Parkway, Suite 300
Rogers, AR 72758
(479)464-4965

Rogers Heritage High School .. p. 52
Brick/Masonry: Premier Block. *Cabinets:* Wilsonart. *Carpet:* J&J Commercial. *Ceilings:* Armstrong. *Ceramic tile:* Dal-Tile. *Doors:* Marshfield. *Elevators:* Otis. *Flooring:* American Terrazzo, Armstrong. *Indoor lighting:* Energie Lighting. *Markerboards:* Claridge. *Other:* Johnsonite, Walltalkers. *Paint:* Pittsburgh Paints. *Signage:* Best Sign Systems.

HMC Architects

1010 Second Ave.
Studio 800, West Tower
San Diego, CA 92101
(619)744-4077

University of California—Irvine, Paul Merage School of Business Tenant Improvements: The Center for Real Estate and Masters of Business Administration Executive Commons ....p. 94-95
Cafeteria furniture: Falcon, Haworth. *Carpet:* Atlas, Collins & Aikman, Constantine. *Ceilings:* Armstrong. *Door hardware:* Dorma. *Flooring:* Nora. *Indoor lighting:* Boyd, Lightolier, Louis Poulsen. *Library/Media center furniture:* Steelcase. *Movable partitions/walls:* Alumacore. *Multipurpose-area furniture:* Brayton, Steelcase. *Office furniture:* Bernhardt, Herman Miller,

Knoll. *Paint:* Dunn Edwards. *Signage:* Gemini.

I&S Group, Inc.

1409 N. Riverfront Drive
Mankato, MN 56002
(507)387-6651

Minnesota State University—Mankato, Memorial Library . p. 103
Cabinets: Wilsonart. *Ceilings:* Armstrong. *Door hardware:* Best Lock Co., Hager, LCN Closers, Pemko. *Doors:* Marshfield. *Drinking fountains:* Elkay. *Emergency lighting:* Cooper Lighting. *Fire/life-safety systems:* Simplex-Grinnell. *HVAC-control devices:* Johnson Controls. *HVAC units:* Titus. *Indoor lighting:* Cooper Lighting. *Other:* Leviton, Pawling. *Paint:* Diamond Vogel. *Washroom accessories:* Kohler. *Washroom fixtures:* Moen.

South Central College—Faribault Campus, Lower-Level Renovation .... p. 74
Carpet: Shaw. *Ceilings:* USG. *Ceramic tile:* Dal-Tile. *Drinking fountains:* Halsey Taylor. *Flooring:* Johnsonite. *Indoor lighting:* Cooper Lighting, Hemera Lighting, Lamar Lighting. *Paint:* Sherwin-Williams.

South Central Service Cooperative ....p. 53
Brick/Masonry: Wells Concrete Products. *Cabinets:* Merrilat. *Card systems:* HID. *Carpet:* Shaw. *Ceilings:* USG. *Ceramic tile:* Dal-Tile. *Clocks/Time management:* Paragon. *Door hardware:* Sargent, Schlage. *Doors:* Marshfield. *Drinking fountains:* Elkay. *Emergency lighting:* Exitronix. *Fire/life-safety systems:* Faraday. *Hand-drying equipment:* Bradley. *HVAC-control devices:* Lennox. *HVAC units:* Lennox. *IAQ devices:* Renewaire. *Indoor lighting:* Artemide, HE Williams, Infinity, Ledalite, Lightolier. *Insulation:* Owens Corning. *Movable partitions/walls:* Hufcor. *Paint:* Sherwin-Williams. *Plumbing:* American Standard, Elkay, Moen, Sloan Valve. *Roofing:* Firestone Building Products. *Signage:* ASI Modulex. *Washroom accessories, fixtures:* Bradley. *Washroom/shower partitions:* Comtec. *Windows:* Kawneer, Pella.

South Central Service Cooperative, Educational Addition .... p. 112
Brick/Masonry: Wells Concrete Products. *Cabinets:* Merrilat. *Card systems:* HID. *Carpet:* Shaw. *Ceramic tile:* Dal-Tile. *Clocks/Time management:* Paragon. *Door hardware:* Sargent. *Doors:* Graham. *Emergency lighting:* Exitrenix. *Fire/life-safety systems:* Faraday. *Hand-drying equipment:* American Specialties. *HVAC-control devices, HVAC units:* Lennox. *IAQ devices:* Greenheck. *Indoor lighting:* HE Williams, Artemide, Infinity, Novitas. *Insulation:* Owens Corning. *Markerboards:* Claridge. *Paint:* Sherwin-Williams. *Plumbing:* American Standard, Elkay, Delta, Sloan Valve. *Roofing:* Firestone Building Products. *Signage:* Graphic Solutions, Inc. *Washroom accessories:* American Specialties. *Washroom fixtures:* American Specialties. *Washroom/shower partitions:* Global Partitions. *Windows:* Kawneer. *Wire management:* Cabo-Fil.

Integrated Architecture

4090 Lake Drive S.E.
Grand Rapids, MI 49546
(616)574-0220

Davenport University, Student Center .... p. 122
Athletic equipment: Schelde. *Bleachers/Grandstands:* Irwin Seating. *Brick/Masonry:* Lincoln Brick. *Carpet:* Milliken, Shaw. *Ceilings:* Armstrong. *Ceramic tile:* Dal-Tile. *Doors:* Marshfield. *Elevators:* Schindler. *Fire/life-safety systems:* Tyco, Simplex-Grinnell. *Flooring:* Dur-A-Flex, Floorazoo, Nora Rubber. *HVAC-control devices, HVAC units:* Trane. *Indoor lighting:* Lithonia, Gotham, Hubbell, Contech. *Other:* Dovae, Forbo, Mats, Inc., Mechoshade, Micros, Pionite, Walltalkers, Wilsonart, Wolf-Gordon. *Paint:* Pittsburgh Paints, Sherwin-Williams, Scuff Master, Graham. *Physical-education flooring:* Mondo USA, Connor Sports Floor, Nora Rubber, Robbins, Tuflex, Johnsinte. *Roofing:* Firestone Building Products. *Scoreboards/Clocks:* Fair Play. *Washroom accessories:* Gamco, Kohler. *Washroom/shower partitions:* Bobrick.

Integrated Design Solutions, LLC

888 W. Big Beaver, Suite 200
Troy, MI 48084
(248)823-2100

Oakland Community College, Student Services Center Addition .... p. 123
ADA/compliance equipment: ThyssenKrupp. *Brick/Masonry:* Superior Block. *Cabinets:* Stevens. *Carpet:* Interface. *Ceilings:* USG. *Ceramic tile:* TEC. *Clocks/Time management:* National Time & Signal. *Door hardware:* McKinney, Von Duprin, Best, Rockwood. *Doors:* Graham, McKeon, Total. *Elevators:* ThyssenKrupp. *Emergency lighting:* Metalux. *Fire/life-safety systems:* Ansul, Simplex-Grinnell. *Flooring:* Hartco. *HVAC-control devices:* Siemens. *HVAC units:* York. *IAQ devices:* Liebert. *Indoor lighting:* Cooper Lighting, Douglas. *Insulation:* Grace. *Kitchen equipment:* Great Lakes. *Locks:* Sargent. *Messageboards:* Claridge. *Movable partitions/walls:* Hufcor. *Other:* Draper, Morgan Francis. *Paint:* Sherwin-Williams. *Plumbing:* Grinnelli. *Roofing:* Carlisle. *Signage:* ASI Modulex, JL Geisler. *Washroom accessories:* American Specialties. *Washroom fixtures:* American Dispenser, Watrous. *Washroom/shower partitions:* Global Partitions. *Windows:* Safti. *Wire management:* Appleton, Eastern.

International Architects Atelier

912 Broadway, Suite 300
Kansas City, MO 64105
(816)471-6522

University of Missouri—Columbia; Hatch, Schurz, Bingham Complex Renovation ....p. 116
Card systems: Ingersoll-Rand. *Carpet:* Bolyu, Interface, J&J Commercial, Milliken, Shaw. *Ceilings:* Armstrong. *Ceramic tile:* American Olean, Crossville. *Door hardware:* Ingersoll-Rand. *Doors:* VT Industries. *Elevators:* Kone. *Flooring:* Karndean, LG Deco, Roppe. *Insulation:* Owens Corning. *Locks:* Best Access. *Movable*

partitions/walls: Hufcor. *Paint:* ICI Paints. *Roofing:* Firestone Building Products. *Washroom accessories:* Bradley. *Washroom/shower partitions:* Scranton Products.

John A. Grillo, Architect PC

1213 Main St.
Port Jefferson, NY 11777
(631)476-2161

Uniondale High School, Auditorium Renovation .... p. 55
Auditorium/assembly furniture: Irwin Seating. *Brick/Masonry:* Sioux City Brick. *Carpet:* Lees. *Ceilings:* Armstrong. *Computers:* Apple. *Door hardware:* Schlage. *Doors:* Special Lite. *Flooring:* Armstrong. *HVAC-control devices, HVAC units, IAQ devices:* Trane. *Paint:* Sherwin-Williams. *Roofing:* Siplast. *Windows:* St. Cloud.

Kaatz, Binkley, Jones & Morris Architects, Inc.

1008 Charlie Daniels Parkway
Mount Juliet, TN 37122
(615)754-5393

Mount Juliet High School .... p. 75
Athletic equipment: JayPro. *Auditorium/assembly furniture:* Track Seating. *Bleachers/Grandstands:* Hussey Seating. *Brick/Masonry:* Lojac, Ragland, Tristate. *Cabinets:* LSI. *Carpet:* Shaw. *Ceilings:* Celotex. *Ceramic tile:* Dal-Tile. *Door hardware:* Hager, Von Duprin. *Doors:* Algoma Hardwoods. *Draperies/Blinds:* Levelor. *Drinking fountains:* Elkay. *Elevators:* Dover. *Flooring:* Altro, Amorim, Azrock, Flexco, Fritztile, Johnsonite, Mannington. *HVAC units:* Trane. *Indoor lighting:* Bodine, Columbia Lighting, Hubbell Lighting, Spaulding. *Kitchen equipment:* EMS, Inc., Hobart, Metro, Thermo Kool. *Library/Media center furniture:* HON, Jasper. *Lockers:* List Industries. *Markerboards:* Newline. *Office furniture:* HON. *Other:* Claridge, Roppe, Staron, Wilsonart. *Paint:* Porter Paints, PPG, Sherwin-Williams. *Roofing:* Firestone Building Products. *Security systems:* D&H Electronics Systems. *Signage:* Rowmark. *Washroom accessories:* Bobrick. *Washroom fixtures:* Elkhart, Zurn. *Washroom/shower partitions:* Comtec. *Windows:* US Aluminum.

Landow and Landow Architects AIA LLC

3000 Marcus Ave.
Lake Success, NY 11042
(516)326-1111

***The British International School of New York, Plaza View Campus, Art and Science Center .... p. 41**
Card systems: ADT. *Carpet:* Interface. *Ceilings:* Armstrong, USG. *Ceramic tile:* American Olean, US Ceramic. *Door hardware:* Pemko, Rockwood, Sargent, Stanley, Yale. *Doors:* De La Fontaine. *Drinking fountains:* Elkay. *Emergency lighting:* Atlite. *Fire/life-safety systems:* Simplex-Grinnell, Tyco. *Flooring:* Forbo. *Hand-drying equipment:* Excel. *HVAC units:* Chromalox, Indesco, Tithe. *IAQ devices:* Greenheck, Tithe. *Indoor lighting:* Ledalite, Lightolier. *Lockers:* Lyon. *Messageboards:* MDC. *Paint:* Benjamin Moore, Duroplex. *Plumbing:* American Standard, Elkay, Olsonite, Toto. *Science furniture:* HNE Eqpt. *Security systems:* ADT. *Washroom accessories:* Bobrick. *Washroom fixtures:* Elkay, Murro, Toto. *Washroom/shower partitions, Waste receptacles:* Bobrick.

Leo A Daly

8600 Indian Hills Drive
Omaha, NE 68114
(402)391-8111

Georgia State University, Library Transformation .... p. 104
Cabinets: Summon, Nevamar, Wilsonart, Zodiaq. *Carpet:* Shaw, Interface. *Ceilings:* Armstrong. *Ceramic tile:* Panaria. *Classroom furniture:* Herman Miller, Source Intl., Steelcase. *Computer furniture:* Haworth. *Door hardware:* Best Locks. *Doors:* VT Architectural Products. *Drinking fountains:* Elkay. *Emergency lighting:* Lightguard. *Fire/life-safety systems:* Simplex-Grinnell. *Flooring:* Dodge-Regupol, Ecosurfaces, Mannington, Panaria. *Hand-drying equipment:* Bobrick. *HVAC-control devices:* Siemens. *HVAC units:* York. *IAQ devices:* Siemens. *Indoor lighting:* Lightolier. *Insulation:* Certainteed. *Library/Media center furniture:* HBF, Knoll, Teknion. *Locks:* Best Lock. *Lounge furniture:* Danko Pershing, Herman Miller, Steelcase, Teknion. *Multipurpose-area furniture:* Knoll, Steelcase. *Office furniture:* Haworth, Steelcase. *Paint:* Duron, Intumescent Paint. *Plumbing:* Elkay. *Roofing:* Firestone Building Products. *Washroom accessories:* Bobrick. *Washroom fixtures:* Elkay. *Washroom/shower partitions:* All American Metal. *Windows:* Kawneer. *Wire management:* Eaton.

Lerner | Ladds + Bartels, Inc.

236 Hope St.
Providence, RI 02906
(401)421-7715

Brown University, J. Walter Wilson Building .... p. 93
No supplier information available.

loci architecture PC

594 Broadway, Suite 506
New York, NY 10012
(212)226-2228

***P.S. 58 Carroll School .... p. 36**
Ceilings: Armstrong. *Clocks/Time management:* American Time & Signal. *Door hardware:* LCN Closers, Yale. *Flooring:* Forbo. *HVAC units:* Friedrich. *Indoor lighting:* Crownlite, Lightolier. *Library/Media center furniture:* Brodart, Wilsonart. *Messageboards:* Forbo. *Paint:* Benjamin Moore. *Plumbing:* Elkay.

LPA, Inc.

5161 California Ave., Suite 100
Irvine, CA 92617
(949)261-1001

***American Career College .... p. 28**
Brick/Masonry: Agrob Buchtal. *Cabinets:* Tahiti Cabinets. *Carpet:*

Milliken. *Ceilings:* Armstrong. *Ceramic tile:* Edilcuoghi. *Classroom furniture, Computer furniture:* Steelcase. *Door hardware:* Schlage. *Flooring:* Dur-A-Flex. *Lounge furniture, Office furniture:* Steelcase. *Other:* Da-Lite. *Paint:* Frazee. *Science furniture:* Dow Diversified. *Washroom fixtures:* Sloan Valve. *Windows:* Arcadia.

LWPB Architecture

5909 Northwest Expressway, #600
Oklahoma City, OK 73132
(405)722-7270

Shawnee Early Childhood Center....................................... p. 113
Brick/Masonry: Acme Brick, Portland Cement. *Cabinets:* Nevamar, TMI. *Carpet:* Interface, Shaw. *Ceilings:* Armstrong. *Ceramic tile:* TEC. *Chalkboards*: Claridge. *Door hardware:* Ceco. *Doors:* Oshkosh. *Draperies/Blinds:* Bali. *Fire/life-safety systems:* Globe Fire Sprinkler, Larsen's. *Flooring:* Armstrong, Tarkett. *Insulation:* Fiberlite Technologies. *Kitchen equipment:* Markham, Penco, Wilsonart. *Laundry equipment:* Whirlpool. *Lockers:* DeBourgh. *Paint:* Devoe. *Roofing:* Johns Manville, Tamko. *Signage:* ASI Modulex. *Washroom fixtures:* Bradley. *Washroom/shower partitions:* Comtec. *Windows:* EFCO, Tristar.

Marner Architecture

330 West 42nd St., 17th Floor
New York, NY 10036
(212)239-1030

The Chapin School, Addition and Alterations .... p. 65
Carpet: Interface. *Ceilings:* Certainteed. *Ceramic tile:* American Olean, Dal-Tile. *Classroom furniture:* KI. *Door hardware:* Schlage. *Draperies/Blinds:* Mechoshade. *Elevators:* New York Elevator. *Flooring:* Forbo. *HVAC-control devices:* Control Logic. *HVAC units:* Aaon. *Indoor lighting:* Cooper Lighting, Lutron. *Lockers:* Lyon Metal Products. *Movable partitions/walls:* Steelcase. *Office furniture:* Global, HON, KI. *Other:* Smart Technologies, US Aluminum. *Paint:* Benjamin Moore. *Science furniture:* Bedcolab, KI. *Windows:* Fulton.

Miller Lecky Architects Inc.

1461 Gerrard Ave.
Columbus, OH 43212
(614)294-1996

Ohio Northern University, Hanson Reading Room .... p. 105
Carpet: J&J Industries. *Ceilings:* Above View. *Door hardware:* Corbin Russwin. *Doors:* Eggers. *Indoor lighting:* G Lighting. *Library/Media center furniture:* Lane Furniture. *Other:* 3M, Crestron, Da-Lite, Sanyo. *Skylights:* Naturalite.

Moody • Nolan, Inc.

300 Spruce St., Suite 300
Columbus, OH 43215
(614)461-4664

The Ohio State University, Recreation and Physical Education Center .... p. 109
Athletic equipment: Concept II, Cybex, FreeMotion, Life Fitness, Precor, Star Trac, Woodway. *Bleachers/Grandstands:* Bleachers International, Interkal. *Brick/Masonry:* Trenwyth. *Cafeteria furniture:* Gordon, Loewenstein. *Carpet:* Bentley, Collins & Aikman, Interface. *Ceilings:* Armstrong. *Ceramic tile:* Dal-Tile. *Classroom furniture:* KI. *Door hardware:* Dorma. *Doors:* Marshfield. *Draperies/Blinds:* Mechoshade. *Flooring:* Mondo USA. *Indoor lighting:* Bega, Musco. *Laundry equipment:* Suitmate. *Lockers:* Lyon. *Lounge furniture:* Keilhauer, Loewenstein. *Office furniture:* Haworth, Herman Miller. *Paint:* Benjamin Moore. *Physical-education flooring:* Bentley, Connor Sports Floor, Mondo USA. *Scoreboards/Clocks:* Colorado Timing System, Nevco. *Waste receptacles:* Rubbermaid. *Windows:* Vistawall.

NAC | Architecture

2201 Sixth Ave., Suite 1405
Seattle, WA 98121
(206)441-4522

***Aberdeen High School .... p. 29**
Ceilings: Armstrong. *Flooring:* Armstrong, Mannington. *Indoor lighting:* Prescolite. *Other:* Johnsonite, Versa. *Paint:* Sherwin-Williams.

O'Connell Robertson

4040 Broadway, Suite 200
San Antonio, TX 78209
(210)224-6032

San Antonio College, Nursing and Allied Health Complex .... p. 85
Classroom furniture: Izzy Design, KI, Soundcraft. *Computer furniture:* KI. *Lounge furniture:* Arcadia, Deflect-O, HON. *Office furniture:* Allsteel, Steelcase. *Other:* Rubbermaid. *Waste receptacles:* Safco, United Receptacles.

O'Connell Robertson

811 Barton Springs Road, Suite 900
Austin, TX 78704
(512)478-7286

Texas A&M University, McFerrin Athletic Center ....p. 110-111
ADA/compliance equipment: ThyssenKrupp. *Athletic equipment:* UCS. *Bleachers/Grandstands:* Steel Stadiums. *Brick/Masonry:* Acme Brick. *Carpet:* Mohawk. *Ceilings:* Armstrong. *Clocks/Time management:* Lynx Finish Systems. *Door hardware:* Falcon, Hager, LCN Closers, Von Duprin. *Doors:* Curries, Overhead Door. *Drinking fountains:* Elkay. *Elevators:* ThyssenKrupp. *Emergency lighting:* McPhilben. *Fire/life-safety systems:* Tyco. *HVAC-control devices:* Siemens. *HVAC units:* Trane. *Indoor lighting:* Day-Brite, Elliptipar, Ocean Slate. *Insulation:* Knauf. *Messageboards:* Daktronics. *Other:* Helmut Guenschel, Seamans Corp. *Paint:* Sherwin-Williams. *Physical-education flooring:* Mondo USA. *Roofing:* Siplast. *Scoreboards/Clocks:* Daktronics. *Washroom fixtures:* Kohler. *Washroom/shower partitions:* PolyLife.

Paulsen Architects

209 S. Second St., Suite 201
Mankato, MN 56001
(507)388-9811

South Central College—North Mankato Campus, Chemistry and Industrial Labs Renovation .. p. 126
Cabinets: Southern MN Woodcraft. *Carpet:* Lees. *Ceilings:* Tectum. *Door hardware:* Best Access, Hager, McKinney, Sargent. *Doors:* VT Industries. *Emergency lighting:* Exitronix. *Flooring:* Armstrong, Fritztile. *Indoor lighting:* HE Williams, Infinity. *Paint:* Pittsburgh Paints. *Plumbing:* Watersaver.

PBK

11 Greenway Plaza, Suite 2210
Houston, TX 77046
(713)965-0608

Raymond B. Cooper Junior High School .... p. 76
Athletic equipment: Irwin Seating, Porter Athletic Equipment. *Brick/Masonry:* Acme Brick. *Carpet:* Collins & Aikman. *Ceilings:* Celotex. *Ceramic tile:* American Olean, Interceramic. *Door hardware:* IR Systems. *Draperies/Blinds:* Bali, Imperial Cloth, KM Fabrics. *Flooring:* Armstrong, Dal-Tile. *Library/Media center furniture:* Indeco. *Lockers:* Lyon Metal Products. *Markerboards:* Polyvision. *Paint:* Sherwin-Williams. *Physical-education flooring:* Connor. *Roofing:* Johns Manville, Pac Clad. *Scoreboards/Clocks:* Nevco. *Washroom/shower partitions:* Capital Partitions.

Peter Gisolfi Associates

566 Warburton Ave.
Hastings-on-Hudson, NY 10706
(914)478-3677

Concordia College, Donald A. Krenz Academic Center .... p. 84
Auditorium/assembly furniture: KI. *Carpet:* Atlas, Ulster Carpet. *Ceilings:* Armstrong. *Ceramic tile:* Dal-Tile. *Classroom furniture:* KI. *Computer furniture:* KI. *Door hardware:* Best Access, LCN Closers, Von Duprin. *Elevators:* ThyssenKrupp. *Flooring:* Mannington. *Indoor lighting:* Lightolier. *Insulation:* Owens Corning. *Locks:* Best Access. *Lounge furniture:* AGI, Cartwright, Martin Brattrud. *Paint:* Benjamin Moore. *Windows:* EFCO.

Phelan Associates, Inc. Architects

400 W. Lake St., Suite 204
Roselle, IL 60172
(630)307-2900

Robert Morris College—Chicago Campus, Pharmacy Technology Laboratory............................... p. 100
No supplier information available.

Pugsley. Simpson. Coulter. Architects

2480 E. Tompkins Ave, Suite 222
Las Vegas, NV 89121
(702)435-1150

Roy Martin Middle School Replacement.............................. p. 66
Carpet: Collins & Aikman. *Ceramic tile:* Dal-Tile.

River Bluff Architects

1214 Frederick Ave.
St. Joseph, MO 64501
(816)232-7248

Hamilton Elementary School .... p. 60, 77, 98
Athletic equipment: Porter Athletic Equipment. *Bleachers/Grandstands:* Interkal. *Brick/Masonry:* Elgin-Butler, Trenwyth. *Cabinets:* LSI. *Carpet:* J&J Commercial. *Carpet:* Lees. *Ceilings:* Armstrong. *Door hardware:* Corbin Russwin, McKinney, Pemko. *Doors:* Eggers. *Emergency lighting:* McPhilben. *Fire/life-safety systems:* AGF, Ames Fire & Waterworks, Anvil, Notifier, Potter, Reliable, Tyco. *Hand-drying equipment:* American Specialties. *HVAC units:* Airedale, Change-Air. *Indoor lighting:* Capri, Day-Brite, Finelite, Omega. *Insulation:* Dow, Firestone, Johns Manville, Thermal Corp. *Kitchen equipment:* Atlas, Cleveland, Greenheck, Hobart, Manitowoc, Metro, Norlake, Russco. *Markerboards:* Newline. *Movable partitions/walls:* Modernfold. *Paint:* Kwal Paint, Sherwin-Williams. *Physical-education flooring:* Gerflor. *Plumbing:* A.O. Smith, American Standard, Amtrol, Bradley, Elkay, Jsoam, Sloan. *Roofing:* Berridge, Firestone. *Washroom accessories:* American Specialties. *Washroom fixtures:* Bradley. *Windows:* Tubelite.

Robert A. Lack AIA Architecture & Design, Inc.

230 Market St.
Lewisburg, PA 17837
(570)524-2300

Bloomsburg University, Lycoming Residence Hall Entrance Renovation ....p. 117
No supplier information available.

Rowland Design, Inc.

701 E. New York St.
Indianapolis, IN 46202
(317)636-3980

Purdue University, Owen Hall Laundry .... p. 118
Carpet: Mannington. *Ceilings:* USG. *Door hardware:* McKinney, Rockwood. *Doors:* Maiman Co. *Draperies/Blinds:* Carnegie. *Fire/life-safety systems:* Anvilstar, Victaulic. *Flooring:* Johnsonite, Tarkett. *HVAC units:* Enviro-tec. *Indoor lighting:* Lithonia, Peerless. *Movable partitions/walls:* Clark Western. *Multipurpose-area furniture:* MTS. *Other:* Architex, Knoll, Lumicor, Maharam. *Paint:* ICI DeVoe. *Plumbing:* Guy Gray, JR Smith, Just Mfg.

Scott Simons Architects

75 York St.
Portland, ME 04101
(207)772-4656

Waynflete School, Waynflete Arts Center Theater .... p. 56
Athletic equipment: Porter. *Auditorium/assembly furniture:* Hussey Seating, Quattro. *Brick/Masonry:* LaChance

Brick, Morin Brick. *Cabinets:* Precision Millwork. *Carpet:* Collins & Aikman, Shaw. *Ceilings:* Armstrong. *Ceramic tile:* Dal-Tile. *Chalkboards*: Claridge. *Classroom furniture:* VS Seating. *Communications systems:* Hubbell Lighting. *Door hardware:* Sargent. *Doors:* Marshfield. *Draperies/Blinds:* Draper. *Drinking fountains:* Halsey Taylor. *Emergency lighting:* Dual Lite. *Fire/life-safety systems:* Honeywell, Norris. *Flooring:* Knight Quartz Tile. *HVAC-control devices, HVAC units:* Trane. *Indoor lighting:* Eureka, Finelite, Focal Point. *Insulation:* Nu-Wool. *Locks:* Sargent. *Markerboards:* Claridge. *Paint:* Benjamin Moore. *Physical-education flooring:* Taraflex. *Roofing:* Carlisle, Elk. *Signage:* Welch Architectural Signs. *Washroom accessories:* Bobrick. *Washroom fixtures:* Elkay, Kohler, Toto, Zurn. *Washroom/shower partitions:* General Partitions. *Waste receptacles:* Bobrick. *Windows:* Marvin.

SHW Group

5717 Legacy Drive, #250
Plano, TX 75024
(214)473-2454

***Frisco Independent School District, Career and Technical Education Center ....p. 37**
ADA/compliance equipment: Gamco. *Brick/Masonry:* Acme Brick. *Cabinets:* Calmar Mfg. *Carpet:* Collins & Aikman. *Ceilings:* Armstrong, Rulon. *Ceramic tile:* Dal-Tile. *Classroom furniture:* Calmar Mfg. *Communications systems:* Eaton. *Door hardware:* Sargent, Hager. *Doors:* Adams-Rite, Graham, Ingersoll-Rand, Kawneer, Won Door. *Draperies/Blinds:* Bali. *Elevators:* ThyssenKrupp. *Fire/life-safety systems:* GE, Napco. *Flooring:* Armstrong. *Hand-drying equipment:* Gamco. *HVAC-control devices, HVAC units, IAQ devices:* Trane. *Indoor lighting:* Bega, Finelite, Zumtobel. *Insulation:* Icynene. *Kitchen equipment:* Delfield, Frymaster, Hatco, Hobart, Imperial, Manitowoc, Millrock, Wells. *Laundry equipment:* Kenmore. *Lockers:* List Industries. *Locks:* Sargent. *Markerboards:* Newline. *Movable partitions/walls:* Moderco. *Paint:* Sherwin-Williams. *Plumbing:* Zurn. *Roofing:* Johns Manville. *Science furniture:* Calmar Mfg. *Washroom accessories:* Bay West, Kimberly Clark. *Windows:* Kawneer. *Wire management:* Cerrowire.

SHW Group LLP

20 E. Greenway Plaza, #200
Houston, TX 77046
(713)548-5760

Goose Creek Memorial High School .... p. 78
Auditorium/assembly furniture: Irwin Seating. *Brick/Masonry:* Southwest Masonry. *Cabinets:* Collegedale, TMI. *Carpet:* Mannington. *Ceilings:* Armstrong. *Ceramic tile:* Dal-Tile. *Chalkboards*: Newline. *Draperies/Blinds:* Graber. *Elevators:* ThyssenKrupp. *Flooring:* Dal-Tile, Forbo. *Kitchen equipment:* Stafford-Smith. *Laundry equipment:* Girbau. *Markerboards:* Newline. *Paint:* PPG. *Physical-education flooring:* Sport Court. *Washroom fixtures:* Kohler. *Windows:* Vistawall, Viracom.

SHW Group

2338 Coolidge, #100
Berkley, MI 48072
(248)336-4902

Michigan State University in Dubai .... p. 79
Carpet: Desso. *Ceilings:* AMF, Hunter Douglas. *Door hardware:* Dorma. *Flooring:* Armstrong. *Movable partitions/walls:* Hufcor. *Other:* Abet Laminiti, Avonite.

SHW Group

5717 Legacy Drive
Plano, TX 75024
(214)473-2454

***New Tech High @Coppell .... p. 30**
No supplier information available.

STV

205 W. Welsh Drive
Douglassville, PA 19518
(610)385-8200

Slippery Rock University, Boozel Dining Hall ....p. 61
No supplier information available.

Texas Tech University System, Facilities Planning and Construction

15th & Akron, Administration Building Room 41
Lubbock, TX 79409
(806)742-1166

***Texas Tech University, School of Law, Mark and Becky Lanier Professional Development Center .... p. 42-43**
Auditorium/assembly furniture: American Seating. *Brick/Masonry:* Acme Brick. *Carpet:* Lees, Mohawk, Patcraft, Shaw. *Ceilings:* Hunter Douglas, National Gypsum, USG. *Ceramic tile:* Azuvi, Dal-Tile. *Chalkboards*: Claridge. *Door hardware:* Hallgren Co. *Draperies/Blinds:* Kirsch. *Elevators:* Otis. *Fire/life-safety systems:* Honeywell. *Flooring:* Armstrong, Azuvi, Zaxxon. *Indoor lighting:* Gardco Lighting. *Insulation:* Dow. *Library/Media center furniture:* Worden. *Lounge furniture:* Gunlocke, Krug. *Markerboards:* Claridge. *Movable partitions/walls:* Steelcase. *Office furniture:* Krug. *Paint:* Sherwin-Williams. *Washroom accessories:* Gamco. *Waste receptacles:* United Receptacle.

Treanor Architects

110 McDonald Drive, Suite 192
Lawrence, KS 66044
(785)842-4858

***Education City, Residence Halls, Apartments and Residential Community Center .... p. 44**
No supplier information available.

University of Kansas, Krehbiel Scholarship Hall ....p. 119
ADA/compliance equipment: ASI.

Brick/Masonry: Glen-Gery. *Card systems:* CBORD. *Carpet:* J&J Commercial. *Ceilings:* Armstrong. *Ceramic tile:* American Olean. *Door hardware:* McKinney, Norton, Pemko, Precision, Rixson, Rockwood. *Doors:* Eggers. *Draperies/Blinds:* Graber. *Elevators:* Vertical Express. *Emergency lighting:* Lithonia. *Fire/life-safety systems:* Larsen's, Simplex-Grinnell, Tyco, United Brass, Victaulic, Viking. *Flooring:* Armstrong. *HVAC-control devices:* Johnson Controls. *HVAC units:* Desert Aire, Greenheck, Qmark, Water Furnace. *Indoor lighting:* Forecast, Icon, Lithonia, Manning, Murray Feiss, Progress Lighting. *Insulation:* Certainteed, Dow, Guardian, Johns Manville. *Kitchen equipment:* Cecilware, Curtis, Duke, Hobart, Jamestown, Metro, Silver King, Victory, Vulcan. *Locks:* Best. *Markerboards:* Claridge. *Messageboards:* Claridge. *Paint:* Benjamin Moore. *Plumbing:* Fiat, ProFlo, Wade, Watts. *Roofing:* Tamko. *Signage:* Gemini, Nelson Harkins. *Washroom accessories:* ASI. *Washroom fixtures:* Aquarius, Bemis, Chicago Faucet, Crown, Kohler, Leonard. *Washroom/shower partitions:* Accurate Partition. *Windows:* Manko.

WHR Architects, Inc.

1111 Louisiana, 26th Floor
Houston, TX 77002
(713)665-5665

Sam Houston State University, College of Humanities and Social Sciences Building ....p. 67
Auditorium/assembly furniture: KI. *Brick/Masonry:* Acme Brick. *Carpet:* Lees. *Ceilings:* Armstrong. *Ceramic tile:* American Olean. *Classroom furniture:* KI. *Flooring:* Mannington. *Lounge furniture:* KI. *Paint:* ICI. *Washroom accessories:* Bobrick.

Wold Architects and Engineers

305 St. Peter St.
St. Paul, MN 55102
(651)227-7773

Northpoint Elementary School .... p. 106
Carpet: Mohawk. *Ceilings:* Chicago Metallic, USG. *Ceramic tile:* Dal-Tile. *Door hardware:* Glynn-Johnson, LCN Closers, McKinney, Schlage. *Doors:* Curries, Marshfield. *Indoor lighting:* Gotham, Peerless, Windirect. *Library/Media center furniture:* Fleetwood, Smith Systems. *Paint:* PPG. *Windows:* EFCO.

YHR Partners, Ltd.

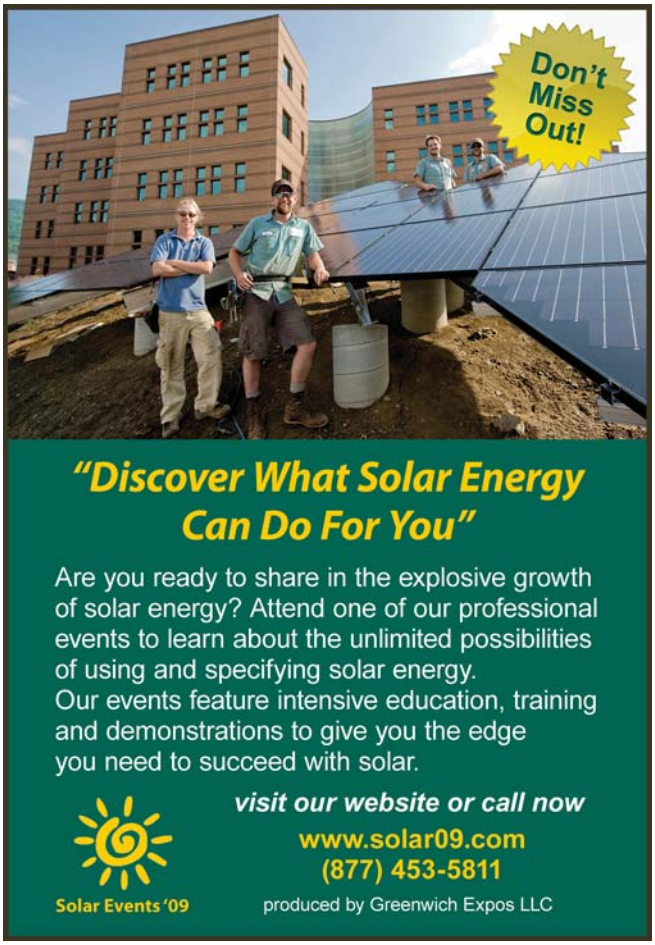
420 Main Ave.
Moorhead, MN 56560
(218)233-4422

***Minnesota State Community and Technical College, Student Life Addition and Remodel .... p. 38**
Brick/Masonry: OCHS Brick. *Carpet:* Shaw. *Ceilings:* Certainteed. *Ceramic tile:* Bisazza, Crossville, Dal-Tile. *Door hardware:* Best Access, LCN Closers, Von Duprin. *Doors:* Cornell. *Fire/life-safety systems:* Advanced Fire Protection, Loren Cook, Ruskin, Simplex-Grinnell. *Flooring:* Mannington. *HVAC-control devices:* Johnson Controls. *HVAC units:* McQuay, Trane. *Indoor lighting:* Lithonia. *Insulation:* Johns Manville. *Markerboards:* Claridge. *Other:* Siemens, In Pro. *Paint:* Sherwin-Williams. *Washroom accessories:* American Specialties, Bobrick. *Washroom fixtures:* Crane Plastics, Elkay, Kohler, Sloan Valve. *Washroom/shower partitions:* General Partitions. *Windows:* Wausau.

Zyscovich Architects

100 N. Biscayne Blvd., 27th Floor
Miami, FL 33132
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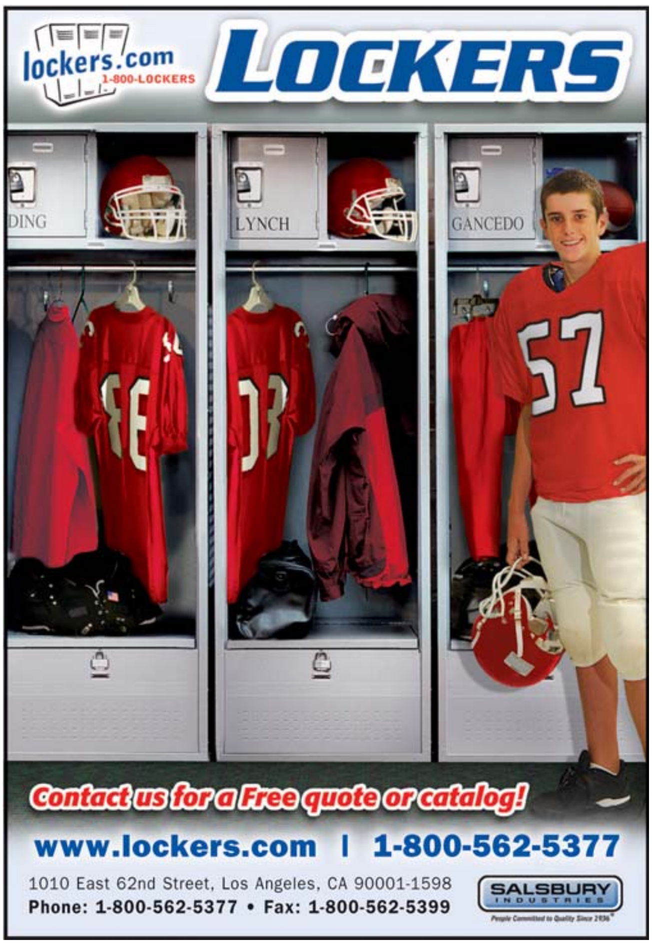
***Pine Jog Elementary School and Florida Atlantic University, The FAU Pine Jog Environmental Education Center ....p. 31**
Cabinets: Laminart. *Carpet:* Interface. *Ceilings:* Armstrong. *Ceramic tile:* Dal-Tile. *Chalkboards:* Claridge. *Door hardware:* Ingersoll Rand, LCN Closers, Von Duprin. *Draperies/Blinds:* Draper. *Drinking fountains:* HAWS, Oasis. *Elevators:* ThyssenKrupp. *Emergency lighting:* Dual Lite. *Fire/life-safety systems:* Larsen's, Simplex-Grinnell. *Flooring:* Armstrong. *HVAC units:* Trane. *Indoor lighting:* Columbia Lighting, Focal Point, Hubbell Lighting, Prescolite. *Insulation:* Thermax. *Kitchen equipment:* Bally, Blodgett, Champion, Cleveland Range, Delfield, Electrolux, Gaylord, Land Mfg., Traulsen. *Laundry equipment:* Kenmore. *Lockers:* List Industries. *Locks:* Schlage. *Markerboards:* AARCO Products, Claridge. *Messageboards:* Claridge. *Movable partitions/walls:* Hufcor. *Other:* Draper, National Gypsum. *Paint:* Sherwin-Williams. *Plumbing:* American Standard, Florestone, Just Mfg., Lochnivar, Speakman, Zurn. *Roofing:* GAF, Grace Products. *Signage:* Baron Signs. *Washroom accessories:* GAMCO. *Washroom fixtures:* Acorn, Zurn. *Washroom/shower partitions:* Santana. *Windows:* Traco, YKK.



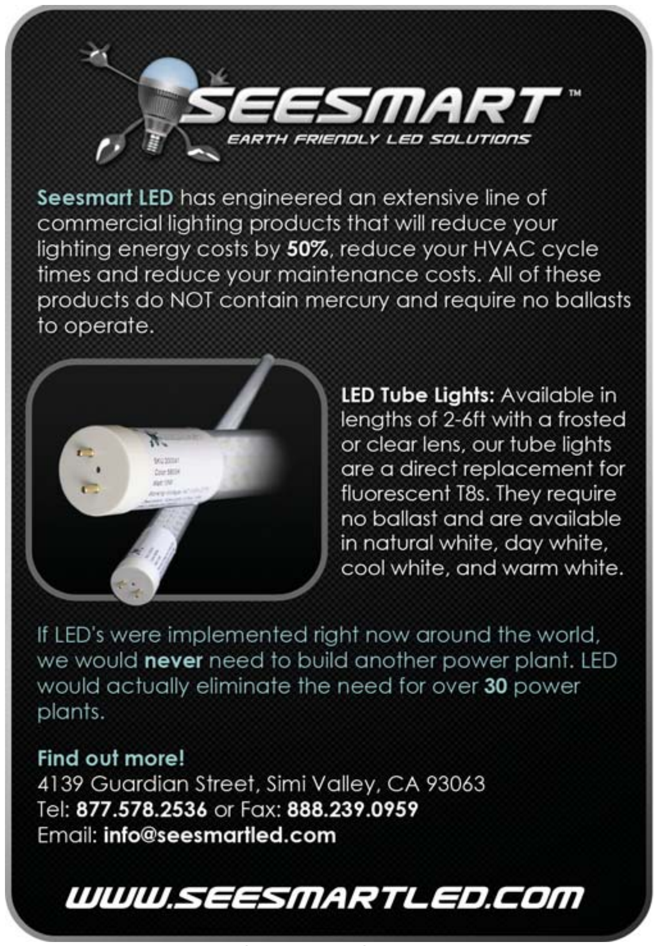
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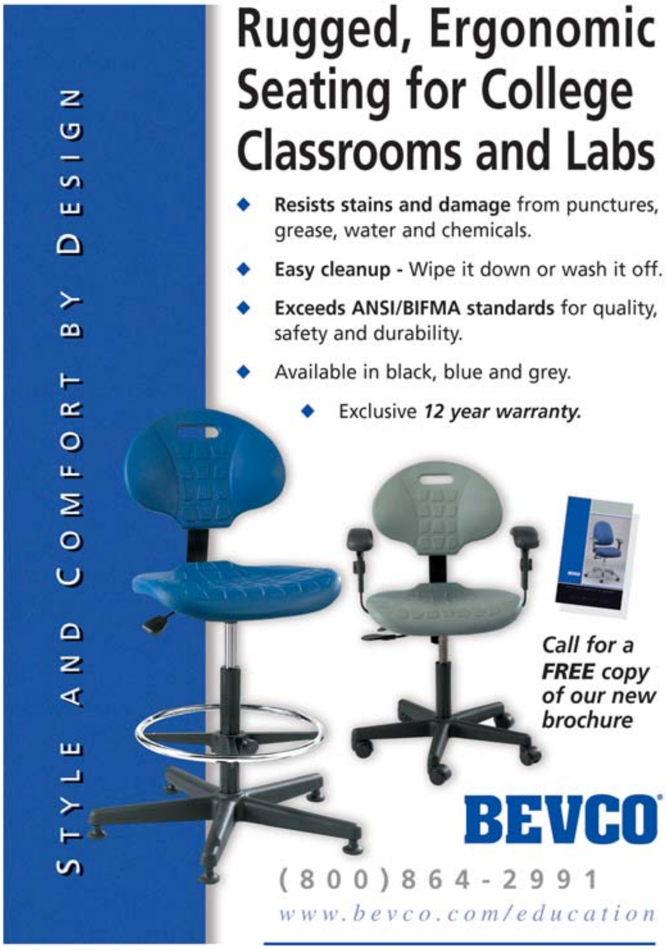
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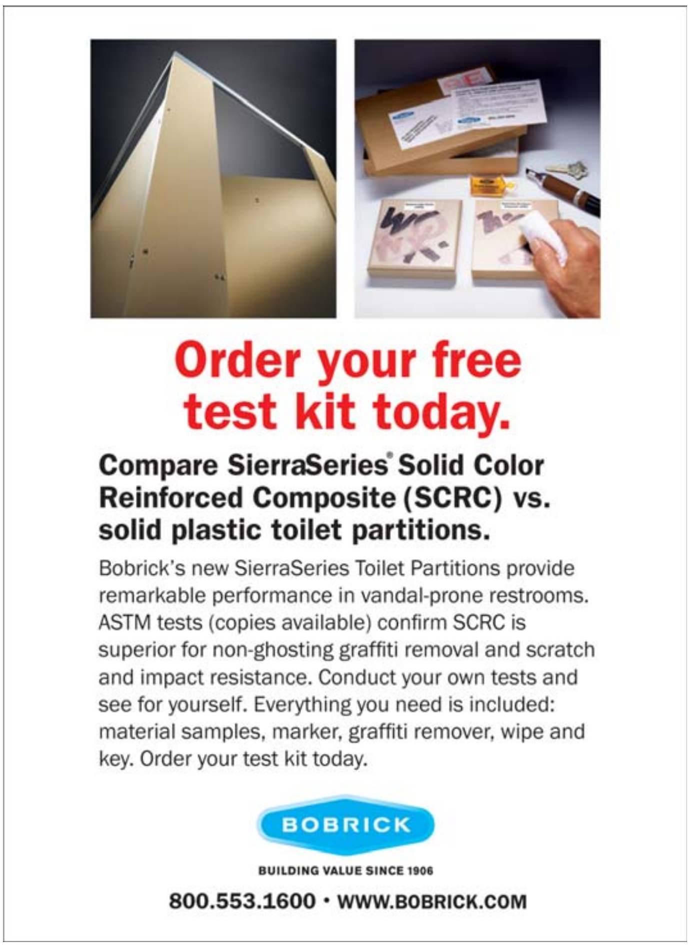
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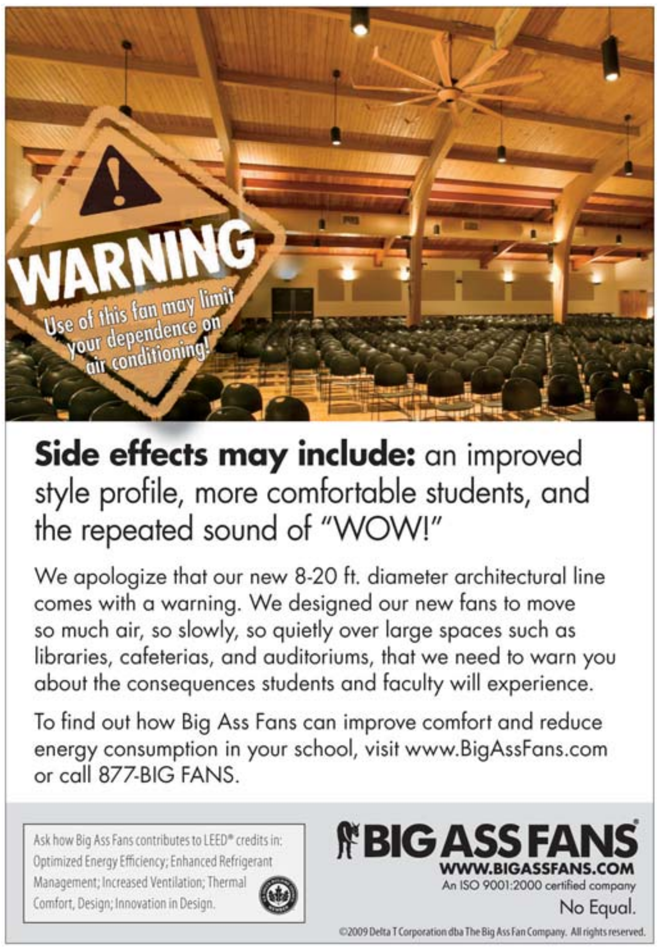
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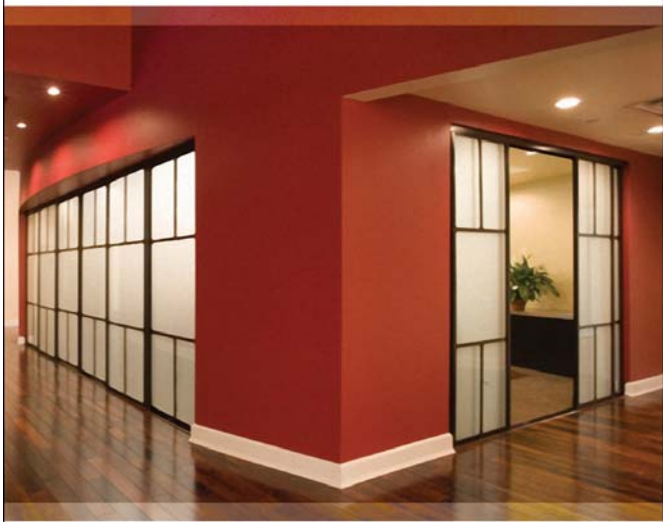
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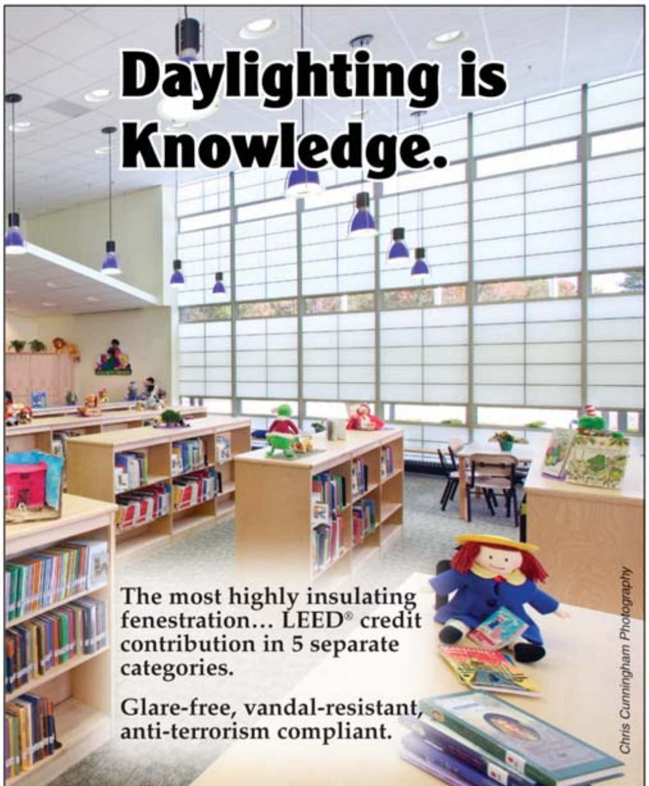
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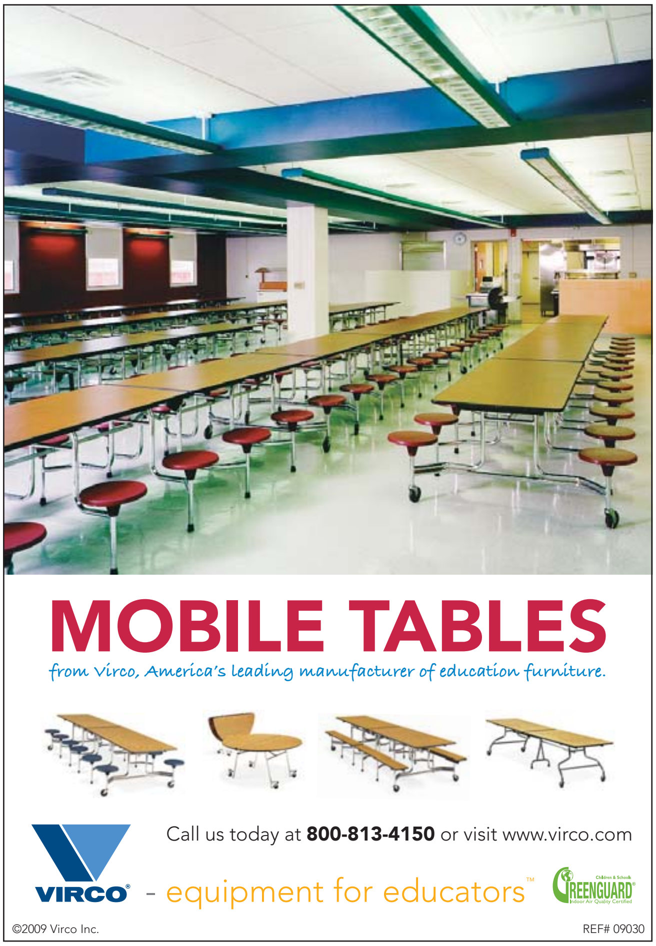
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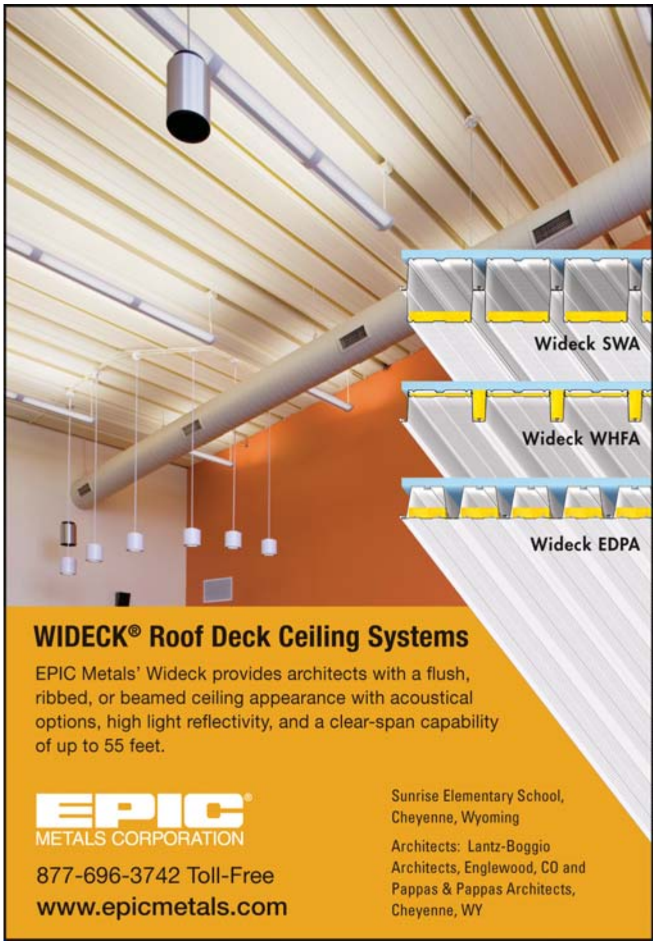


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